# INTRODUCTION

"Over-population in Jaunpur" is one of a series of tural surveys undertaken by post-graduate students of the Lucknow University with a view to ascertain the effects of population pressure on rural economy and social life and welfare in the eastern districts of the United Provinces. It sees the light of day on account of the interest taken in these investigations by Mr G F. Clarke, Director of Agriculture

Jaunpur's rural density is now the highest in the province. A rough comparison of the agricultural statistics of Jaunpur and Meerut will be interesting—

1			Jaunpur	Mcerut.		
1,	Density (1931)	•	• •		797	702
2,	Average holding	••	•		8°5 aeres	78 aores.
8.	Percentage of net cu	iltivated to	o oultivabl	le aren	76 0	82 4
4,	Percentage of area c	ropped mo	ore than o	nce to	25 6	83*4
5.	Percentage of 1rriga	ted to irrig	gable area		71•2	<b>36</b> 8
6,	Percentage of irrigationce to rural area	ted are cr propped m	copped more than o	re than nce	24	1*8

The eastern districts of the United Provinces were, till the sixteenth century, covered with large belts of forests. The area cultivated was small and population sparsely distributed. We read in the Akbarnama that on the march of an army along the southern bank of the Gogra in what is near the Azamgarh district, forests were traversed and various wild beasts, both land and aquatic, showed themselves, which is extremely inapplicable at present. Finch was told that the journey from Jaunpur to Allahabad was thirty kos, "all of which are through a continual forest". Moreland who institutes an interesting comparison between Abul Fazl's figures of cropped area and the present day district statistics estimates the cultivated area

of Jaunpur district as 360 000 bighas at the time of Albar as compared with about 1 515,000 bighas at the present day. Thus cultivation has increased at least four fold no doubt on account of the stimulus of population growth

Population has been expanding by leaps and bounds in Jaunpur district during the last century. Between 1841 and 1921 the net oultivated area in the district increased by 10.7 per cent while the population expanded by 44 per cent. That the limit has been reached in the direction of extensive farming is indicated by the fact that the percentage of the cultivated area to estimated cultivable area has now reached the phenomenal figure of 84 per cent. Nor are the prospects of inarease of double cropped area hopeful. Between 1806 and 1916 the double cropped area, no doubt increased from 142 192 acres to 193,808 acres, but since that year the figure has not shown any expansion, the areas being 167,906 and 182,190 acres in 1927 and 1929 respectively. As it is the area is one of the largest in the United Provinces forming about a quarter of the total cropped area of the district and is limited by the nature of the soil and agricultural water supply

But intensive cultivation in the sense of growth of heavy yielding crops or of better crops of the same kind has certainly not exhausted its possibilities. Indeed, the district is showing progress in both these directions. Rice for instance has shown a sterdy and continuous expansion. From 113 000 acres in 1841, the area increased to 121 366 acres in 1886. In 1908, the area was 167 800 and in 1929 it was 107 987 acres. The extension of the rice area is due partly to the reclamation of the fringes of swaips and usar land partly to the spread of double cropping in fields where a rotation of rice and peas is now observed and partly to the substitution of rice for other steples. The pea area was 25 000 acres in 1841, 33 000 in 1856 and 81, 373 acres in 1908. More recent increases have not be a recorded. Similarly maize which is another valuable heavy yielding crop has continuou by expanded. It stood at only 4, 175 acres in 1841, and the latest figure is 97,305 acres. On the other

hand, intensive cultivation has led to the decline of acreages under certain crops. The most important of these is sugarcane. The sugarcane area stood at 81,436 acres in 1841, which came down to 49,292 acres in 1906. In 1929 the area further declined to 40,675 acres. One of the main causes of the unpopularity of sugarcane is that the peasant piefers to grow maize or rice and then to sow a rabi crop on the same field, thus obviating the necessity of long fallow and careful preparation of the soil demanded by the crop. Similarly, barley has declined though not to the extent of the diminution of sugarcane. In 1841, the barley area stood at 213,000 acres. In 1929, the area was only 191,491 acres.

The above changes in cropping are both interesting and significant as indicating the agricultural adjustment of a district which has now more mouths to feed than the existing system and standard of cultivation can afford growth of melons, radislies, potatoes and other vegetables, which fetch better prices, has also been rapid in Jaunpur Some of the under-sized holdings near the towns grow little of the staple foods and make large profits out of fruits vegetables and flowers Fruit-culture and marketgardening are, indeed, two important directions in which the solution of the problems of the uneconomic holdings will be found for the eastern district of the province. An acre of vegetables or fruits in Benares, Basti or Jaunpur is worth often ten to fifteen times the value of an acre of wheat, and the holding, which is uneconomic when it grows the ordinary staples, will be ample when it grows garden crops Unfortunately such cultivation is chiefly in the hands of the specialised eastes Koiri, Kacchi, Murao etc ) and the masses of agriculturists have not as yet taken to vegetable and fruit-growing It is also futile to grow garden crops, fruits or flowers systematically except in the neighbourhood of small towns unless rapid and easy means of transport are developed

Jaunpur is comprised within a region which shows the world's most marvellous system of irrigation from wells. The district is literally honeycombed with wells, and in a year of

scarcity more of these are built to cope with the demand of agricultural water-supply Roughly speaking, there is now one well for every 12 acres of cultivated area, 20 acres of total area and 25 acres of irrigated area. Each year of scarcity has left a legacy of defences behind, and thus Jaunpur has come to be insured against distress. The potential resistance is indicated by the abnormally high figures of irrigated area reached in the years of scarcity.

Percentages of irrigated to estimated irrigable area—

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In 1929-80 which was also a year of short minfall almost throughout the province, the total irrigated area in Jaunpur was 351,298 acres of which the area irrigated by well was as much as 324,464 acres The whole agricultural future of Jaunpur is intimately connected with the fullest possible use of wells Double cropping in this district depends mostly upon wells while the rabi crop is protected effectively by the expansion of the well irrigated area whenever the runfall is irregular or deficient. Thus the economy of well irrigation and of water generally speaking is the paramount need of the castern distriots The water demands of the various crops require closer investigation and the possibilities of water saving by a combina tion of fodder production and improved methods of agriculture should be explored. Secondly the practice of constructing field or ravine embankments should be extended to gave as much as possible the rain water or well water. Thirdly saving in water might be effected by piping or lining the water channels At present then is great loss of water due to evaporation and percolation in earther channels. In many villages channels lined with roof tiles may occasionally be seen especially when the water is to be conducted to long distances. and along more porous soils. Lostly a can ful visibute is t

be maintained with a view to ascertain whether there is a fall in the sub-soil water-level in any of the intensively irrigated areas

The Census of 1931 has given the provisional figure of 797 as the density of Jaunpur district. Before this, Jaunpur has shown a decline in its density of population since 1891 as the following table will indicate —

Year		I	Density.
1881		N .	780
1891		•	816
1901		••	<b>7</b> 76
1911	`		746
1921		•	749
1931			797

Thus in Jaunpur density has declined, in spite of a steady extension in the total area cropped (including areamore than once) and an extension of well-irrigation which in the last famine year 1918-19 reached the high figure 86 per cent Due to the enormous pressure of population on the land, man's efforts are here being retarded, and population is receiving a It is the old Law of Diminishing Returns though modern economic thought has moved far away from Malthus and his teachings In the study of population attention is now concentrated upon the study of the equilibrium and optimum numbers and the conditions of their maintenance in definite While geographers like Aurousseau study areas or regions the factors of climate, soil or water-supply as determining the population capacity and "expansion ratio" of different regions, biologists like Elton investigate the mechanisms by which an optimum density is maintained for different species of animals in a given ecological area

The population problem of a region thus resolves itself into an investigation of its population capacity in relation to the full utilization of its agricultural and industrial resources, its accumulated agricultural capital and man-power, and of the trend of its birth and death-rates in relation to density as indicating its optimum population. The excessive pressure of

copulation on the soil and its economic and biologic effects are now being experienced in the district, which on account of the natural limits of soil and water resources under the existing technique of the people, cannot produce enough food for its multiplying numbers The survey of a particular village has shown the average holding as 3 3 acres For the whole district the average size of a tenant's holding is 35 acres. For the Gorakhpur division the Banking Inquiry Committee's estimate of the minimum economic helding is 38 acres solding in Janupur district as a whole is probably actually selow the economic unit and the lowest in the United Provinces fore elaborate inquiries are however necessary to find out the proportion of tenants and proprietors where holdings lefinitely nneconomic and whose holdings are at or slightly bove the economic unit No doubt more than 50 per cent of he cultivators possess under sized holdings. Such inv as they are are made up of small plots scattered all over he village. The evil of fragmentation will be evident from one f the instances cited in the survey A holding of 0.13 acre is avided into two parcels 0 60 and 0 70 neres respectively the ormer being again divided into three fragments 02 02 and 3 acres respectively. The waste of labour in nanure implements and water to such tiny plots situated at a. ustance from one another can easily be imagined ecount of the excessive fractionalization of fields that intensive arming has been seriously handicapped in the eastern districts f this province

No pensant can own and work an uneconomic holding scept at a loss. Besides there is chronic under employment a uneconomic holdings. The pensant in the eastern districts f this province, cultivating they holdings hardly works for hore than six months in the very. In the off serion the ultivator's family can hardly find employment in the field for no or two hours a day. Low agricultural income and gricultural idleness thus often go together and as a result either no non-cultivating money lending classes, or the land a

labourers or both grow at the expense of small proprietors and tenants. Such a situation, even if true for small areas is full of social hazards.

Agriculture of a fairly intensive type now supports nearly 76 per cent of the total population of Jaunpur while industry and commerce only 10 and 5 per cent respectively. For the Meerut division, the percentage of the total population engaged in agriculture is 42, industry and trade representing 21 and 6 per cent respectively. The people of Jaunpur have shown far less initiative to strike out new lines than their brethren in Meerit, their smaller average income also is a bar against their engaging themselves in trade and small-scale occupations so commonly met with in the western districts handierafts and agricultural industries or other small scale occupations made available to the Jampuris either as substitutes for agriculture, or as supplementary to it, may relieve the pressure of population. Migration is also widely resorted to as the easiest and quickest mode of mitigating population pres-Normally some 80,000 Jaunpuris emigrate in a decade to Bengal, Assam or Bihar and even to Bombay, Burma and far-off Guiana or Fiji, resulting in the additional advantage derived by the district from the income which pours into it from the emigrant. When the kharif failed in the district in 1929 a single small village, we read in the present survey, sent to Calcutta and other distant places about 20 persons 29 the total sum paid by money orders in Jaunpur district was 533 lakhs, which gives some clue of the assistance rendered by emigrants to families left at home. The eastern generally show high returns of money-orders paid, (801 lakhs), Gorakhpur (60 lakhs) and Azamgarh (541 lakhe), yet the volume of such emigration is small representing only about 6 per cent of the population and can hardly alleviate the enormous pressure of population on the soil The excessive sub-division of land, lack of adequate work for the in toy holdings, a low agricultural outturn, an enforced

idleness due to lack of adequate subsidiary employment conservatism and immobility have all made it impossible for the peasant to maintain the existing low standard of living

We are at present blessed with anything but the optimum The equilibrium density has also been over stepped in some districts of the United Provinces, with the result that we find a steady increase of death rate and even a decrease of birth rate The distinguished biologist Prof Pearl found out that with fruit flies and fowls an increase of density is accompanied by reduction of birth rate even though food is adequately supplied How far certain districts in the United Provinces are showing the fruit fly type of check, viz, reduction of birth rate with density deserves careful inquiry Jaunpur appears to show a distinct tendence towards diminution of birth rate since its saturation density was over stepped in 1891 Between 1901 1909 tbe birth rate was 36 per 1 000 it was 40 99 between 1910 1917 this has come down to 28 01 between 1919 1027 also another way by which the equilibrium density is restored, viz steady increase of mortality Jaunpur along with most districts now shows a close correspon dence of birth and death rates with variation of food supply as measured by cropped area. In both human as well as animal population numbers are hardly ever adjusted by actual This is what, we have learnt since Malthus Before population multiplies to the extent of over-enting its food supply other checks come into operation A gradual lowering of vitality as well as predisposition to discase due to increased economic pressure and crowding lead to increased death rate while the birth rate also slackens if the population continues for long above its average abundance What accomplished by Nature haphazardly and resentlessly ought now to be made the basis of social policy and family creed most desirable method of solution is the new found economy of reproduction viz birth-control A country like India or Japan, which has experienced such 'storms of breeding and

death" must accept a policy of birth-control widely and systematically Recently Japan has appointed a commission to inquire into the problem of population and birth-control and launched a propaganda of buth-control as an measure of solution of her population menace. The menace is much greater here on account of our less rapid industrialization, absence of emigration as well as less intensive exploitation of land resources. Certain social factors also emphasize the population menace in our country Climate has contributed to earlier maturity in India, the majority of females capable of matrimonial life by the age of 15, however unfit they may be physically. Thus the reproductive period in India is longer Infant marriage is more common in India China and Japan In the eastern districts of the United Provinces the race is more mixed than in the western districts Where the lower castes and lower branches of wide-spread castes dominate, the rule of child marriage is adopted more strictly Thus the age of puberty is earlier and infant marriage more common in the eastern than in the western districts bf The low social position of the Indian the United Provinces women, who are also protected in some degree against hard work in the field by taboos, also encourages frequent child-bearing irrespective of physical suffering and economic incapacity The peasantry must give up many a time-worn custom belief and acquire a new respect for woman and for man's social heritage and dignity before it can check poverty and the lowering of living standards Neither a rapid industrializa-tion nor improved agricultural methods, neither emigration overseas nor the opening out of new markets can employ or absorb the population which multiplies like fruit-flies and field-The masses must understand the laws of population before we can evolve a rational economic system or check the steady lowering of their vitality

Over-population is now a real menace with its accompaniments of poverty, low average expectation of life, and low

standard of living, and the question should be investigated in all its a pects, its relations to custom, law and rural public opinion, and its bearings on the problems of agriculture and industry, on public health and emigration, and on social welfare generally

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# CONTENTS.

-			Pages.
E Growth of Population Density			113
II—Sine of Tomasi's Holdings	u.		14-22
III - Relation of Number of Wells to E	dings		23— 4
1V-The Standard of Life	•		35—42
B. V-Binigration	~		4349
m VI-Agricultural Wagns			50—53
m VII Berel Housing			54—59
ns VIIII Complusion			6067
Brian .			68—75
MAPS AND D	SLAGRAMS		
Map of Jeanpur District			Pocket.
Map of Surve showing smallness of hole	ings .	••	,, Page.
m showing relation between population bed Provinces.	density and rainfall in	the	1
m showing relation between birth and deat area.	n-rates and the total oultr	.va-	5
m showing population trand	•		8
showing scatteredness of a small holding			21
showing relation between rainfall and ne	cultivated area		28-
showing relation between rainfall and ah	rrif area .	••	<b>3</b> 0
showing relation between rainfall and re	b: area .		30
bes noitagint mewtes soitaler griwoid	double cropping		32
	nd well-irrigated areas		34

# OVER-POPULATION IN JAUNPUR.

## CHAPTER I

## GROWTH OF POPULATION DENSITY.

The factors which govern the density of population in an agricultural tract are geographical as well as social and political. All these factors interact with one another, and the absence of any one of them may bring down the density to a low figure. Physical configuration plays a remarkable part in determining the population density of an area, as continuous cultivation is impossible in a mountainous country. There is also a distinct correlation between the density of population and the quantity of rainfall. Thus the fertile alluvial soil of Sind degenerates into barren desert owing to the very scanty rainfall. Let us consider one by one these factors in the case of Jaunpui district.

# Conditions of water supply

The agricultural water-supply of an area depends upon rainfall wells, reservoirs, canals and other sources of irrigation. The effects of the pressure of population are seen in the progress of irrigation, particularly in those districts where the normal rainfall is relatively low

# Rainfall.

The normal rainfall of the district is 40 62 inches per year. In India agriculture depends more on rainfall and the configuration of the surface than on soil character. There is a distinct correlation between water supply and density of population. In districts where normal rainfall is below 30 inches per annum the deficiency outweighs all other factors in limiting agricultural productivity and population density.—

Districts	Ramfall	Irrigation	Density
Jaunpur	<b>4</b> 1 80	45 5	745
Fyzabad	40 06	40 6	676
Bara Bankı	39 00	24 2	585 5
Shahjahanpur .	37 47	23 6	486 2
Allahabad	37 28	20.7	491 4
Budaun	32 80	10 1	484
Jhansı	34 30	10 2	166

The above table shows the relation between variations of rainfall and density. The contrast is more vivid and striking in the cases of Jampur and Jhans. The distribution of rainfall with regard to time and place is more important than its amount. In spite of the fact that Cheerapoonjee records the highest rainfall its density of population is not the highest. It is not even higher than that of Jampur A properly distributed rainfall of 40 inches is sufficient in our province and less than this or bad distribution may affect the success of cultivation considerably and ultimately the density of population. Thus it is clear that rainfall is a limiting factor in agriculture and rural density. The illatter is governed by the interaction of a variety of natural and economic factors.

## Irrigation

The possible sources of irrigation in our district are rivers streams lakes ewamps tanks ponds and wells. There is as yet no canal in the district.

#### Wells

The great support of the agricultural population of the district is the well. The whole of the district is honevounded with pakka wells. This is due to the permanent settlement and is also an outcome of the land revenue policy of the Government. It is clear from the figures given below that the limits of well irrigation have been nearly reached under the existing hand and bullock power used by the peasantry. In unfavourable years the number of kacheha wells is generally increased.

Years	Total wells of the dis- trict.	Intigated area.	Area infrated by wells.	P reentage of well-irriested to total irri gated ar a.
1952 23	81,327	363,616	308,481	8.5
1023-24	81,071	353,928	203,010	86
10*1-25	50,667	333,761	~95,149	<b>8</b> -
19°5- 8	50,591	353,39*	31-,150	49
19*6- 7	59,481	319,848	316,101	nı
19*7 <del>*8</del>	10,957	1*7 137	143,460	nī

The following figures for the years 1911 to 1928 illustrate the remarkable dependence of agriculture on well irrigation in some of the non-canal districts of the United Provinces. It also shows the extreme limit which well irrigation has reached in spite of a lowering of the water-level and other difficulties:—

District	Yoar	Total net cropped area	Estimated irrigable area	Well ırrıgated	Other sources	Total irrigated	Percentage of irrigated to estimat- ed irrigable area
(	1911-12	628,291	417,000	184,014	53,335	237,349	56 7
\ \	1916-17	652,748	442,000	293,410	72,404	365,814	82 8
-Jaunpur {	1924-25	648,744	746,000	295,149	43,612	338,761	71 2
(	1927-28	655,730	487,000	123,380	4,057	127,437	26.2
ı	1911-12	471,317	185,000	108,001	25,322	133,323	91 9
	1916-17	483,185	195,000	148,371	37,824	186,195	ە 5 3
Benares {	1924-25	474,643	207,000	131,038	10,229	141,267	68 0
(	1927-28	523,699	214,000	157,006	10,777	167,783	78 4
	1911-12	2,123,966	803,000	255,776	297,247	553,023	68 8
Gorakhpur	1916-17	2,124,^09	831,000	399,319	310,909	710,228	85 4
Gorakupur	1924-25	2,129,881	939,000	414,371	373,855	788,226	83 9
(	1927-28	2,161,112	974,000	108,242	31,595	139,837	14 3
(	1911-12	857,466	528,000	183,479	195,991	379,470	71 8
∠ zamgarh <	1916 17	901,125	559,000	261,628	243,253	504,881	93 9
z zamgaru s	1924-25	902,172	601,000	276,104	204,310	480,414	79 8
(	1927-28	906,479	613,000	65,391	6,964	72,355	11 8

The above figures show that the percentage of irrigated to estimated irrigable area has reached a very high figure varying from 50 to 953 per cent and that the limit of well irrigation has been reached in some years

It is also evident that the density of population is higher in well irrigated districts than in with canal irrigated districts. This is because

the percentage of irrigated cultivated and double cropped areas is higher in well irrigated districts. This will appear from the following table -

Districts.	Density of population per square mile.	Rural districts.	Normal rainfall.	Percentage of irrigated to irrigable areas.	of area	to total
Non-canal destricts.						
Benares	893	704	29 99	68.3	23 8	13
Jampur	745	711	40 0.	71 2	25 0	2.4
Gorakhpur	721	690	48 15	839	<b>52.8</b>	10
Aramgarh	660		40 43	799	40 ~	3 2
Ballia	679		43 44	63.6	46	1 4
Partabgarh	593		37 90	037	280	6 1
Gonds	534	Í	44 55	71.4	43 6	4
Canal dutricle			- 1	i	- 1	
Macrui	652	545	28 00	36 6	33.4	1 3
Campore	485	391	81 85	44.7	91	10 1
Muters.	427	850	23 61	40 3	12 5	٥.

The table shows the various factors of agricultural productivity in relation to the density of population in different districts (1)

#### Other spurces

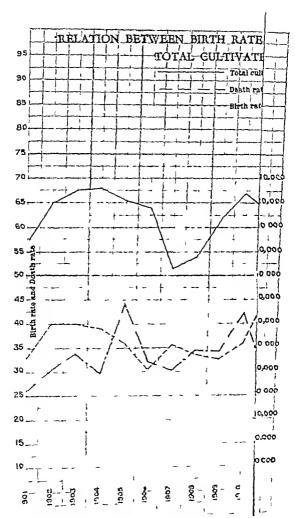
These consist of rivers atreams lakes awamps etc. The areas arrigated by these sources are negligible in comparison with well imputed areas Out of a total irrigated area of 127 437 acres of land 4 057 are arrigated from other sources

## Soil conditions and fertility

Increase of cultivated area and multiple cropping are the results of greater pressure on the land With the increase of population people work harder to increase the food supply by cultivating wrete [in] and also by raising two crops in a year from the same fields cropping increases with the increase of irrigation facilities (1) R. L. Mak-rjee a Memorandum on Terigation in the Boral Arri-of eral C onto

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district the irrigation facilities are most secure, wells irrigating 97 per cent. of the total irrigated area. The districts of Azamgarh, Jaunpur, Gorakhpur and Basti show a much larger irrigated area than the canal districts. The *rabi* crops of these districts are protected by wells. Conditions are also favourable for the sinking of wells as water is quite near the surface level and firm soil needed for the proper sinking of a well is found in most tracts.

The non-canal districts show higher percentages of net cultivated as well as double cropped area to total cultivable area. Hence the population density of these districts is higher than in the canal districts. This fact is illustrated by the following table (1)—

Districts		Percentage t	to cultivable	Normal	Percentage	Porcentage
		Net cultivated area	Double cropped area.	rainfall	of density of popu- lation 1891—1921	total net eropped area 1891—1924.
Non-canal distri	cts.					
Benarcs	••	82 5	22 4	39 99	15 0	14 3
Azamgarh	••	77 3	20 1	40 42	14 8	10 2
Jaunpur	••	76 0	21 1	40 62	12 6	2 4
Gorakhpur	••	82 7	22.7	48 15	63 2	4 4
Bastı		80 3	26 8	46 67	30 7	4 9
Canal districts	3	]				
Meerut .	••	82 4	18 8	18 09	17 5	16
Saharanpur		80 8	19 7	30 99	61	2 0
Muzaffarnagar	•	75 5	8 9	29 67	15 2	5 5
Bulandshahr	••	80 8	24 7	26 0	13 8	4 1

'Relation between vital statistics and harvests

After having examined the effects of rainfall and other sources of water supply we should consider another important factor influencing population. In years of deficient rainfall there is a decline in the total cultivated area. Birth-rate falls during these years, but there is a corresponding increase in death-rate. But it is otherwise in good years.

<sup>(1)</sup> R K Mukerjee —" The Agricultural Regions of the Ganges Valley" The Indian Journal of Economics, 1928

When agricultural conditions are favourable and the cultivated area goes up birth rate increases and death-rate is lowered. This is evident from the following table —

Year	Birth-rate	Death rate	Total cultivated area,
			F770 ##40
1901	33 12	25 87	788 230
190°	40 18	30 54	8*0 456
1903	40 *8	33, 97	830 187
1004	39 26	~0 67	83., 801
905	30 02	44 09	822 055
.1906	30 36	32.02	818 910
1907	35 00	3000	767 149
1908	33 63	31 21	777 710
1909	23 14	33 02	803 401
1010	23 81	4 21	877 510
1011	48 01	*7.4	81 339
1912	41 ~0	58 -0	8*0-820
1913	45 77	30.00	PLO 010
1014	39 43	50 OS	Sal 180
1915	30 42	32 01	841 86
1916	35 78	01 15	اکن ۱۹۶
1017	41 15	36 99	WIEW
1018	25 11	60 20	773 614
1010	-3 74	35 -	811 031
10~0	31 .1	ا 10 س	-03 45F
19°1	10.00	3_ 83	50% 461
10	213	27.01	*10 C
1923	73.74	19.5	643 fel
10*4	741	*4 b1	414 43
	3.0	14 6	NIS 755
19 5	-201	1 54	ሥን ሮግ
10 <sup>4</sup> 6 19*7	., ,,	16 ~0	47 PM

# Early Enumerations.

The first recorded attempt to ascertain the population of the district It was not merely incomplete but admittedly inaccuwas made in 1847 rate, being based on estimates sent in by revenue and police officers total population was 798.503, recorded without distinction of sex, creed or race, and was obtained by counting the houses and taking an arbitrary number of occupants to each In 1853 a regular census was taken showing the different columns for sex and religion, and also distinguishing agriculturists from others This showed a population of 1,143,749, the average density being 737 to the square mile, the rate ranged from 1.328 in pargana Zafarabad to 617 m Mungra There were 3,042 inhabitated towns and villages, of which 2,861 contained less than 1,000 souls a piece, 182 between 1 and 5,000, and the three others were Jaunpur, Machhlishahi and Shahgani A third census was taken in 1865, this showed a distinct improvement in method over both its predecessors was 1,015,481, showing a density of 654 per square mile

# Census of 1872

This time the figures went up, probably due to better organization of the census agency. The number of inhabitants was 1,025,961, giving an average density of 659 to the square mile. There was a large increase in the Khutahan tahsil, and both Mariahu and Kirakat showed a greater population than before, though to a very small extent, but, (on the other hand, Jaunpur and Machhlishahr had declined, particularly the former, presumably on account of its diminished area

# Uensus of 1881

In spite of the scarcity of 1877-78 and the occurrence of several epidemics the district generally was in a prosperous condition. The population showed a figure of 1,209,663. The density rose tremendously, showing 778.3 per square mile. The increase was due to greater accuracy in enumeration. On previous occasions the concealment of females was generally suspected, and the suspicion was confirmed by the results of this census.

# Census of 1891

The increase had been maintained, though not at the same rate In several years epidemics of small-pox and cholera had caused great mortality while another factor was emigration, which had been going on rapidly as a result of the increased pressure on the land. The total number of inhabitants was 1,264,949 or 55,286 more than that of the previous enumeration. As before, females showed a more rapid rate of progression than males. The density had risen to the remarkable figure of 816 to the square mile. The relative position of the

various tahais in this respect remained unchanged Jaunpur coming first with a density of 9928, followed by Kirakat with 82 7 and Khutahan with 792 while Mariahu showed 7907 and Machhishahr 7106

## Census of 1901

In this interval the district has suffered heavily from famine and a succession of bad seasons. The mortality too had been abnormally high and the inducement to emigrate stronger than ever before. It was not peculiar that a decrease should have been observed. The total was 1 202 920 or less by 62 020 than that of 1891. The density felt to an average of 775 6 to the square mile. Of the five tabuls Janupur headed the list with a mean rate of 959 5. Kirakat coming pert with 768 5 and Manahu with 760 8, while that of Khutahan was 744 2 and Machhlishahr 677.9

#### Census of 1911

This time the figures went down due to the occurrence of several epidemics (plague cholera and small pox). The morfality now had been abnormally high showing a rate of 52.90 per 100 as compared to 25.87 of 1901. It was not therefore surprising that a decrease should have been observed. The total was 1,165,254 or less by 15.600 thur that of 1901. The density fell to an average of 745.9 to the square mile. Of the five tolaids Jauppur headed the list with a mean density of 881.2. Kirakat coming next with 782.5 Mariahn third with 752.4 while that of Khutahan 694.9 and Machhlishahr 655.6

#### Consus of 1991

The last census took place on March 18 1921. It showed a further decline of population due to influenza epidemic (1918) and the great world war. A large numb r of people were recruited in the Army from this district during the war. Although the number of deaths in the war was very few but the absence of so large a portion of the able-bodied men from their homes indirectly affected the population by lowering the little rate. The disastrous epidemic vera of 1918 was followed by scarcity and in 1920 there was again a crop failure. The total was 1 165 100 or less by 1 140 than that of 1911. The density fell to 740 to a square mile. Population of the district as a whole is stationary but a gain in the northern and eastern tall its is bulineed by a loss in the south. Kirakat in the east gains most where the density is lowest loses most. Micration has dearn to proportionately: to the decrease of population. Finierants largely exceed immigrants, there is a considerable flow of labour to Beneal.

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Area and population of tailsils

** 1 " Y 1917	2	,								t	
,		Num	Number of—			Population	ntion .		Percentage of variation	tage of tıon	
. Tahsila.	Area ın sq			num ber of		1931		1161	101	1001	number of persons
	mıles	o <sub>₩</sub> ns	Vıllages	houses	Persons	Moles	Females	Both seves	1921	1901 to 1911	mile in 1921.
ndunpp	282	67	731	54,467	251,726	126,719	125,007	248,520	+1 3	-7 7	803
Mariahu	320	Н	616	49,051	235,169	114,773	120,396	701'0F2	-2 3	_1 2	735
Machhlishohr	344	63	612	50,759	217,596	107,678	109,018	225,893	-3 7	-3 3	633
Khutahan (Shahgan))	361	H	721	53,458	255,428	128,183	127,245	250,889	+18	6 9—	708
Krakat	243	H	454	39,653	195,186	97,127	98,059	190,158	+2 6	+1 6	803
Jauppur district	1,550	7	3,134	247,388	1,155,105	ŏ74,480	580,675	1,156,254	- 1	3 9	745
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The great pecuharity of the Jaunpur district is that the number of females in the district is greater than that of males. There are four districts in the United Provinces where females outnumber males. They are as follows—

	Malca.	Females
Garhwal	232,863	20.,323
Jaunpur	574 480	580,623
Mirrapur	381 635	362,548
Sultanpur	404,503	609,219

The main reason of the disparity of sexes seems to be that the emigrants especially the low castes such as the Chamars do not take their wives with them when they go to other provinces or foreign countries

## Migration

Let us now consider another important factor viz migration which uffects the population density. The figures of 1921 are as follows. The actual population of the district is 1,231755 from this number 189,229 people emigrated to distant districts and provinces while the number of immigrants is 57,579 only. Thus we arrive at the following conclusion.

Natural population—(Emigrants—Immigrants) = Actual population 1,284 755—(189 229—59 579) = 1,15., 105

The only immigrants are either women who came to the district from clackhere on the occasion of their marriages or clac official. Mar waris and traders. Various causes can be attributed to emigration. The most important is the pressure on land and con equent severe economic struggle. Another cause is social custom. When a man is out casted he emigrates to some other town. Migration is very extinsive but in most cases it is of temporary nature. It first number of the Julahas and low caste Hindias are employed in the jule and other mills of Calcuita. The Mallahs work as bottnen throughout the river system of Bengal. The Chamars of the district particularly of litrick it taked are removed all over India (Moreland) working as given any hon e-keep is both in regimental and private services. This constant stream of emigration is of great importance to the district as it can the size a route of new wealth and means of rules to families in under size debildings.

# Religion.

Jaunpur is a Hindu district. The number of Hindus is 1,052,831 or 91 14 per cent of the whole population. Of the remainder 191,563 or 8.79 per cent are Musalmans, 121 Christians and 590 belong to other minor sects.

## Hindus

The Hindus of Jaunpui resemble very much those of other districts in the province. The influence of Benares and specially of Shiva worship is very strong. The whole population is divided into the Vaishnavites, Ramanandis and Vallabhacharis and the worshippers of Panchon. Pir worship is fast fading away, but there are still a few il iterate countryfolk who adhere to it

## Hındu castes

The latest census divides the Hindus into 61 castes excluding subdivisions, while 22 909 come under the category of the unclassified. Below are given the figures for some of the main castes of the districts—

52 51,061 51 72,423 7 95,393 6,542
3

## Chamars

First come the Chamars, aggregating 183,710 or 17 44 per cent. of the Hindus They take the lead in Khutahan and Kerakat tahsils, but in the rest of the district they are evenly distributed. In rare cases they hold lands as tenants, but generally work in the fields as agricultural labourers of high class tenants. Most of them migrate to different provinces and work as grooms and house-keepers.

## Brahmans

The Brahmans come next with a total population of 145,554 or 138 per cent of the total Hindu population. They preponderate in Mariahu and Machhlishahr tahsils, and their numbers are small in Kirakat. The Brahmans of this place generally belong to the land-owning class, notably the Raja of Jaunpur and as proprietors they hold more land than any class excepting the Rajputs. They chiefly belong to Sarwaria sub-division, though Gaur, Kanyakubja and Saraswat are also represented

#### Ahus

The third place is occupied by the Ahirs formerly occupying the second place. Their number is 145 213 or 441 less than the Bruhmans and represent 136 per cent of the Hindu inhalitants. Though their chief occupation is cattle breeding they also carry on agriculture. Their standard of husbandry is high.

## Kshatriyas

They form a very important caste of the district. They number 94 768 or a little above 9 per cent of the Hindu community of the district. The number of Kahatrivas in Kirakait tahail is large and they are evenly distributed in all tahsils. They are exclusively landowners and cultivators though their cultivation is no of a high order. They generally depend upon hired labour as their caste rules dehar them from handling the plough

#### Muhammadans

The Sunnis are found in large numbers while the Shias are comparatively very few. Strained feelings hetween the two sects are not unknown and difficulties arise nearly every year on the occasion of the Chehlum and Muharram festivals. The latest census divides tha Muslim community into 26 divisions. Below are given the figures for some of the sub branches of the community.

	Majra.	Fmsle
Darri	2,314	2,473
Dhunia	4,2*9	4 003
Julaha	11 149	11 =13
Nai	2,90°	3 161
Pathan	4 055	3 90 L
Shelkh	11 n <del>*</del> 7	144.9

#### Sheikhs

The foremost place is taken by the Sheikhs with a total population of 22,892 or 23 5 per cent of the entire Musalman community. They prependente in Janupur tabilis but elsewhere they are in the minority. As a class they rank high among the landed proprietize of the district. There are several families of note e.g. Mufti Halder flussins family etc.

## Julahas

The second place is occupied by the Julahas with a total population of 22,892 or 22 5 per cent of the total community. Nearly onethird of them reside in the Machhlishahr tahsil. The Julahas are weavers by profession and in most cases still follow the same pursuit

The population-densities of Jaunpur and some of the advanced agricultural countries are given below —

		Donsity per square mile
Germany	• •	332
Japan		376
Franco .		195
United States of America		32
Belgium .		666
Jaunpur		745

On account of the natural advantages of large and favourable rainfall agriculture in India can support normally a much larger population than in the less favoured countries of Europe Rice is the staple food crop of the district. The introduction of leguminous and catch crops and the utilization of organic manure have contributed also to the adjustment of soil resources to a dense population

#### CHAPTER IT

#### SIZE OF TEXANIE HOLDINGS

As the population increases the pressure on the soil increases and with an increase in the pressure on the soil the size of the tenant's holding decreases. This tendency is encouraged to a large extent by the fertility of the land. The more fertile the land, the greater the increase of population and the smaller the division of holdings.

### Hutory of fragmentation

It is easy to conceive that when our villages were first populated all the land comprised within it was in the possession of a few fami lies mostly of the same caste who were the first to settle in them The fields were then large and land being in plenty and the popula tion sparse a considerable part of it remained uncultivated. Gradually a part of this land went into the possession of others by sale and gift with the gradual increase of population. What remained in the poression of the original settlers and what went into the possession of others were further sub-divided among their heirs or assignees and this process of sub-division has been going on from generatian to gene This is responsible for the smallness of haldings. In ord r to minimize the risk of cultivation the village community distributed its plots amongst the cultivators in such a way that each cultivator had several kinds of lands suiting various conditions allotted to him Thus began the scattered fields in India. Previou ly it was done to secure equal advantage to each co-sharer but now instead of being an advantage to agriculture it has become an obstacle to efficient farming

#### Factors that govern the size of holdings

The Hindu and Muhammadan laws of inheritance allow a definite share to all heirs. The operation of the law of success on not only leads to the division of large estates into small compact plats but also not infrequently to the splitting up of individual fields. Every heir trees to get a share from each field instead of so arranging the division that each may get as many whole fields as possible. Let us take a concrete example. Suppose a Hindu landholder dues bearing five different fillds and five son. Each of them instead of taking one plot will take a fifth part of each plot and thus there will be 2 fields in tend of the original five.

Formerly the cultivation unit was the "joint family land" and partition was uncommon, but now the economic solidarity of the joint family has been affected by the individualism and Western ideas of property. The joint family system held the Hindu family intact for a very long time, but with the break-up of the family solidarity the whole structure of economic life is now threatened.

# Nature of crop

There are certain crops which can be successfully cultivated in fields of small dimensions rather than in big ones. Rice is one of them. Sub-division is especially encouraged by the fact that for the cultivation of rice the land is broken up into plots surrounded by dykes and channels for the inflow and outflow of water. Rice represents the staple food of the district of Jaunpur and is cultivated extensively.

Out of 655,730 acres of cultivated area 171,695 acres are under rice. Rice occupies the second place as regards the area under different crops. This is also one of the reasons why holdings are so small in Jaunpur.

# Rotation of crops

The practice of rotation of crops could succeed when each cultivating family had several kinds of land suiting various agricultural conditions. This is also responsible for the present distribution of fields. With the increase of population the rotation of crops has increased.

# Effects of fragmentation

There are various disadvantages resulting from the fields being small and scattered. They may briefly be summarized as follows.

- (1) The farmer must, under present conditions, live in the village and visit his small and scattered fields to perform the field work which the current crop demands. He cannot live on his farm and be on the spot ready at all times to improve and guard his property
  - (2) Owing to the distance of the various parcels of land from each other agi cultural implements must be carried to and brought back from the fields to the villages, and thus much time, labour and cattle power are wasted

- (3) There is a great waste owing to unnecessary hedges and boundary marks occupying land, and requiring constant repairs trimmings etc. Cactus and other hedge shrubs suck up the moisture of the soil and harbour agriculture nests.
- (4) The crop in the fields requires careful watching especially when it begins to ripen to prevent depredations by wild and stray animals and thieves. If all the fields of the farmer are in one block one or two men would be able to do the work. But owing to their dispersion watching has to be neglected due to its prohibitive cost and the farmers suffer loss from petty theft and damage by snimals.
- (5) Wells cannot be sunk and pumps cannot be set up in each and overy small field and so in dry seasons water the primo necessity of agriculture 5 not made fully available
- (6) Labour saving implements cannot be used for ploughing weeding threshing and other operations and economic farming has become impossible
- (7) Some of the small fields lose all families for communication and for irrigation from existing wells tanks and canals. Disputes as regards right of way passage of water etc arise and lead to law suits and feuds which are runous to all concerned.
- (8) Some of the small fields are thrown out of cultivation the proprietor not carring to undergo the trouble and expense of cultivating an outlying small piece of land
- (9) Chango in rotation of crops is inconvenient. The same system of cultivation has to be followed to avoid the risk of crops being destroyed by herds of cattle let loose on the surrounding fallow fields.
- (10) With the smallness of holdings idleness increases as the cultivators do not get enough work for the whole year. It leads to emigration both permanent and temporary.

## Main cause of tyot's poverty

The result of these causes is that agriculture on the whole hardly provides a decent living for the cultivator and his family What remains to him after paying rent and defraying the cost of cultivation is hardly. sufficient, in the majority of cases, to last till the next season. What they generally do, is that they run to commercial centres just after Dewali festival to supplement their land income. Until the small and scattered holdings are consolidated and their future fragmentation prevented there is no chance for the cultivator to improve his economic condition. As Mr. Keatinge observes, "he (the small holder) can only accept his poverty as due to some unknown cause and grumble indefinitely at the weather or the mahajan or the Government."

## Remedial measures

The remedial measures are mainly two those relating to the arrest of the further sub-division of land, and those relating to the reunion of lands already sub-divided. Of these the first is the more important and should be adopted at once, for if sub-divisions go on unchecked, small farming will go from bad to worse. After checking the process of further sub-division, the next step to be taken would be to re-unite the already divided parts and to effect consolidation.

Fractionalisation cannot be prevented unless the Government and the public co-operate in the matter. There is no custom here, such as is found in Europe where the Cod Napoleon is in force, of the elder brother buying out the younger ones and so becoming sole proprietor of the ancestral land. Rural public opinion should prevent the utility of land for agriculture from being reduced by minute sub-division. Plots of land which used, at one time, to be remunerative, economically fit for cultivation, have been reduced to a size which can barely support an agriculturist's family. If the masses of the people shut their eyes to the ever-increasing minute sub-divisions, agriculture, which is the chief industry of our country, will be more and more handicapped.

# Reunion of divided lands

Reunion of divided lands can be achieved by different ways. Voluntary exchange of contiguous survey numbers or portions of them is one of the ways in which holdings of farmers can, to a certain extent, be consolidated on the irregularities of their shape corrected. This is only possible in the case of literate and sensible farmers. This tendency can be encouraged to a greater extent if the village panchayat or the members of the village co-operative society take interest in the matter and use their influence to promote exchanges by offering their services as mediators. The Government should also give such facilities.

-as exemption from stamp and registration duties and compulsory transfer of the mortgage debt on the new parcel provided the security is not reduced. These facilities would give greater inducements to make exchanges. Austra Belgium and other countries have passed special laws exempting cases of exchange of contiguous rural property from the usual stamp and other duties.

## Restricted sale of right of occupancy

Suppose there is a plot of land to be sold. In such cases only the configuous holders should be allowed to bid in the spectron sale. This will help the consolidation of holdings. Such lands should be given to outsiders only when the owners of neighbouring fields do not want them.

## Culverts scheme of co-operative consolidation

In a co-operative scheme each owner has to agree to the desimbility of consolidation and to the general idea of repartition of village lands. With this end in view each such owner has then to agree to abide by any plan of repartition approved by two-thirds of all the owners and further to give up posterion of his own land and to accept in exchange the lands allotted to him all disputes are to be referred to arbitration possession so given is to be cultivating possession for four years only on the expiration of this period the former possession 1 to be restored unless all the participating owners manimously agree to retain the new division as permanent ownership. Persons accepting these conditions can form a co-operative consolidation of holdings see etv.

The merit of the scheme lies in its entirely voluntary basis compulsion in such cases is bound to cause failure. Further the temporary basis of the arrangement and the provision for reversion to former possession are allaying factors. Mr. Strickland in an article in the Agricultural Journal of India. Vol. 2. 1927 points out that up to the end of July 1996, 255 societies of holdings had been registered in the Panjab and the net result is that there are 12.649 owners while in the veri 1931, there were only 1.683 proprietors. The average size of a field before consolidation was three-quarters of an acre now it is four acres.

Surely this is a great achievement which should inspire co-operators of our province to make similar efforts and thus remove one of the greatest landicaps to the progress of agriculture

# Fragmentation of holdings

The best way to study the problem of tenants' holdings would be to consider the problem of scatteredness and smallness of holdings in a particular village. For this purpose we have taken the village Sirwa in tahsil Jaunpui. There are 3,183 plots of land. The area of the village is 783 90 acres. The village is owned by 192 proprietors. The prevailing form of land tenure is pattidari. The preponderance of pattidaris has made shares in land very minute. Fractionalization, and scatteredness of holdings are the rule in the village.

The total number of holdings in the village is 2,289 These holdings are minutely divided into 3,183 plots as the accompanying map will show

	Years		Average	Number of culti- vators	Size of holdings
1926	,	-	636 60	188	3 38
1927	•		636 75	188	3.33
1928	• •		647 20	192	3 3

The average holding comes to 3 3 acres per cultivator in the year 1928 Holdings have become more and more fragmented with the growth of population. Agriculture is showing the law of diminishing returns all round owing to the splitting up of fields. This fact can be very well grasped by taking concrete cases.—

1 Holding no 393—The total area of the holding at the beginning was 88 acre. This was parcelled out thus—

Holding no	Shares	$\mathbf{Acreage}$
593	593	0 22
	593	0 22
	503	0 22
	593	0 22
Plot no 593/1 was	agaın sub-dıvıded-	
Plot $\frac{593}{1}$	1 1	0 11
	593 1 2	0 11

2 Holding no 708 in this manner — Holding no.	—The total area was	7 scre 1	t was divide
705	708	0 1	
	708	0.3	
	708	0 3	
Plot no 704/2 was a			
708 2	708 2 1 708 2	0.3	
	708	01	
8 Holding no 700 - three shares Holding no.	-The total area of 0"		otas Bebreib
700	200	0 1	
••	709		
	709	03	
	709	0.3	
Plot no 709/8 was ago	an divided into three	ahares-	
700	709 3	01	
	709 3	0.1	
	709 3 2 709 3 3	0 1	
4 Holding no 718	The total area of 0 18	acre was d	rvided into
two parts —	718	0 60	
	716	0 70	

family members cannot always afford to be there. If the cultivator is a well to-do man and engages a guard to watch his field, it will add to his express of cultivation and thus his profits would diminish. The cultivator cannot effect improvements nor dig new wells simply because the fields are too distant and scattered. As a matter of fact the fields nearer the village site are overworked while the outlying fields are apt to be neglected.

### Methods for improvements—subsidiary industries

Agricultural improvements are impossible on such toy holdings for such holdings do not provide sufficient work for the pensants and leave them unemployed during considerable part of the year Apart from increasing productivity by introducing heavy yielding crops another method of adjusting population to resources is the introduction of various subsidiary occupations eg fruit gardening market gardening dair, and stock breeding poultry keeping bamboo work hand weaving In Bengal and the Punjab cottage sericulture is a useful supplementary occupation. In Jaunpur melon and water melon bring something his one and a half lakh of rupees. A very noteworthy development in agricu'ture has been the spread of tobacco growing in Jaunpur Tobacco is a very heavy yielding crop and it flourishes especially in preas in Jaunpur proper where water is ealtish. The next most in portant product of Jaunpur is radish for which our district is greatly renowned Januar maishes are very beavy sometimes weighing 20 or 25 seers each and are very sweet

#### Heavy erops

The present population is supported on such small holdings by a fairly intensive type of farming. All the members of the cultivators family often work in the fields. If the peasant toils alone small hold mas will not pay he also produces heavy crops e.g. sugarcane tobacco and garden crops including vegetables of all descriptions.

#### Improved implements

Where labour is so cheap and plentiful we cannot go in for labour-saving machines and implements. Suppose the cultivators intend to purchase improved implements where will they get the required capital? What about the repaining of big machines etc? When machines are not in use all the members of the family work in the fields but if machines be used a large number of people will be out of employment and this would upset the whole rural economy

In order to remove the evils of smallness of holdings we should thus full back upon some lucrative subsidiary employment and also try to introduce some heavy yielding crops or better crops of the same kind

## CHAPTER III

RELATION OF NUMBER OF WELLS TO HOLDINGS.

## Sources of irrigation

The possible sources of irrigation are rivers, streams lakes, swamps, tanks, ponds and wells. There is practically no irrigation from livers in the whole of the district in ordinary years, although minor streams which run from lake to lake or through swamps are largely used where they exist. Every isolated swamp of lake is, however drawn upon and tanks and ponds are regular sources of water-supply. In fact, all available water is eagerly lifted, but the great support of the agricultural population is the well. There is as yet no canal in the district

# Extension of wells

The whole of the district is honeycombed with pakka wells is largerly due to the permanent settlement and also to the land revenue policy of the Government Out of the total cultivated area of 655,730 acres in the district, 127,437 acres are irrigated both by wells and There are 51,769 wells, both pakka and kachcha, waterother sources ing 123,380 acres of land, whilst 4,057 acres derive water from other sources, 1 e, streams, lakes, swamps, tanks and ponds From the above figures it is clear that wells are the chief source of irrigation and they urigate about 96 8 per cent of the total irrigated area The number of masonry wells actually used is 35,299, while those available number The number of non-masonry wells is 13,154, while 11,302 are actually used for irrigation purposes. No less than 386 pakka wells were built during the year 1927-28

In 1886 there were 23,919 pakka wells and 28,505 kachcha wells, and the areas irrigated from them were respectively 250,900, and 127,034 acres. There was one pakka well to every  $26\frac{1}{4}$  acres cultivated and every  $21\frac{1}{5}$  acres irrigated (i.e., irrigated by any means, not merely by wells), while kachcha wells were one to every  $22\frac{1}{5}$  acres cultivated area and  $17\frac{1}{5}$  acres irrigated area

The average area covered by one palks well was 10; acres and that overed by one kachchs well was 1; acres

The figures in the annual statement of 1885 Fash show that the otal number of pakka wells has gone up considerably while that of acheha wells has gone down

The total cultivated area in the year 1835 Fash was 655 780 acres. Thus at present there is one public well for every 17 acres of cultivated area for every 25 6 acres of total area, for every 8 8 acres of irrigated area and for every 3 2 acres of area irrigated by wells of either sort.

There is one kacheha well for every 75 4 acres of total area 49 8 cres of cultivated area 9 6 acres of irrigated area and 9 8 acres of area regated by wells of either sort

When both kinds of wels are taken together they stand thus there is one pakks or lackcha well for overy 19 1 acres of total area 24 acres of oult vated area 24 acres of irrigated area and 28 acres f area irrigated by wells of either kind

#### Construction and cost of wells

Parka wells are built (1) for irrigating and (2) for supplying water of drinking or manufacturing purposes. Many parka wells were built by persons who wished to perpetuate their names or in connection with indigo factories.

They are usually constructed of real masonry with large platforms rom Rs 500 to Rs 1000 or Rs 1500 at the most Wells built or brick making are of the same class as pakka irrigation wells 1 e sade with bricks without mortar or platform. Sometimes the circumerence of the kachcha wells is bricked to just above the water level and again at the mouth while the intervening space is left unbricked and the shaft is watted with qualls of twisted arhar stalks to above the water line. The following are the approximate costs for constructing wells in different tabuls.—

Tahsıl	Dopth of water	Depth to water	Cost of palla well	Cost of Lachcha well
	Feet	Feet	${f R}{f s}$	Rs a p
Jaunpur .	30	10	300	10 0 0
Mariahu	25	12	180	8 0 0
Machhlishahr	24	12	<b>16</b> 0	6 0 0
Shahganj	27	8	180	5 0 0
Kerakat .	32	. 8	280	7 0 0
District	27	10 ,	220	7 3 0

These figures are the result of minute inquiries in the different tabula of the district. If the all-round average cost of pakka well for the entire district is taken as Rs 220, then the total capital invested in pakka wells would come to something like 85 lakhs of rupees. In the same way assuming Rs 7-3-0 to be the average cost of a kachcha well, the expenditure over this head would be something like one lakh of rupees. Thus we get the enormous capital of 86 lakhs of rupees sunk in wells

# Irrigation other than by wells

The area thus imigated is here shown by tahsils in descending order —

3 1	1	Acres
Shahganj		2,443
Mariahu	ŧ	942
Jaunpur	•	339
Machhlishahr	1	321
Kerakat	i	12
Total	,	4,057

There is practically no irrigation from rivers or streams -There are only three streams worth mentioning —

(1) The Mangni, the Mangni or Mangha, which enters the north of Shahgani from Sultanpur. A great deal of water is contributed to this rivulet from this in Shahgani. Dams are erected at some places which irrigate the wheat and sugarcane fields

- (2) A stream of minor importance proceeds from tal Manikalan to tal Lakhnipur and just Amrauti. This stream is also used for neighbors.
- (3) The Gangi rises in tal Kalan in mauza Am and after entering Azamgarh returns and flows between Kerakat and Deogaon for some distance but this stream is very little irrigated from

There are 76 lakes and swamps exceeding 20 highes in extent They are given below according to tabels --

	<u>'</u>	Vumber of lakes	Ares.						
Tahell	Pargana.	or ewamps.	Bigha.	Biawa	Blevers	Acres			
Khutaban Shabganj	Ungli	38	6 116	6	3	2,969 15			
Machhlishahr	Mungra		2,250	15	۵	I 458 85			
	Ghiswa .	4	1,234	18	13	800 59			
	Garwara	7	484	0	19	300 88-			
	Total	*0	3,949	9	18	2,550 83			
Janupue	Rari	2	225	15	n	151 29-			
	Haveli	6	1 138	6	8	737 51			
	Total	8	1,864	0	10	888 80			
Mariahu	Barusthi	1	170	4	0	110 29			
	Mariahu		906	7	±	887188			
	LetoT	7	1 076	u	4	698 17			
Kerakat	Rialei	1	161	13	13	101 76			
	Chandwak	[ ]	110	7	0	71 51			
	Total		273	0	19	173 37			
District Total		76	12,778	В	18	8,283 T			

It is evident that almost half the total area in the statement is found ın one pargana, namely, Unglı Tahsıl Machhlishahı contains over one-fifth of the total area, re, this tabil and pargana Ungli furnish over seven-n nths of the total submerged area, while the remaining twoninths is almost confined to talisis Jaunpui and Marishu Tabsil Kerakat contains only 173 acres out of a district total of 8,282 m this 173 acres Bialsi contains 102 acres. It will be seen that the positions the talisils assume according to aleas under swamps and lakes are as might be expected identical, with the exception of tahsils Machhlishahr and Manahu Manahu is second in the list according to land nr gated from other source than wells, but it is fourth according to lakes and swamps statistics Machhlishahr stands fourth according to land urigated from other sources than wells, but it occupies the second position according to lakes and swamps Although Jaunpur, Mariahu and Kerakat only contain between them 18 peces of water which exceed 20 b ghas, still they all include an immense number of small ponds from which irrigation s effected

Rainfall during the year 1927-28

From Au	From S to O	Soptemi otober	ber 1 31	ber 1	n Nove l to Ma 1, 1928	rch	T	Total				
	Normal	1927	Number of rainy days	Normal	1927.	Number of	Normal	1927-28	Number of rainy days	Normal,	1927-28	Number of rainy days
Jaunpur	28 68	24 04	35	10 13	6 51	10	1 81	6 25	11	10 62	36 80	56

From the above table it appears that the total rainfall during the year 1927-28 was 36 80 inches, while the normal rainfall was 40 62 inches, Decrease of rainfall is always followed by an increase in the construction of new wells. The total number of new masonry wells constructed during the year 1927-28 was 386. This was the highest figure in the whole of the Benares division. Well construct on is not so expensive a matter in Jaunpur as in the districts of Muttra, Etawah and Agra where the well water table is going down and the desert of Rajputana is fast approaching. The drying up of ponds during the non-monsoon months or during the failure of monsoon is a great incentive in furthering the growth of wells.

		<del></del>																
Mo	to a streomid not of sora ana thin				5 3	<u> </u>	=	191	28	8	ಹ	25	ž	3	88	100	§.	101
9410 01 1	ier to esata ered designal esent E trafotet of Estates terros			•		, ;	2	6	23	37	a	20	2	;	9	**	F	92
10	еданизот Ч я да Ідейд			.5	3	7	5 ;	3	25	8	8	8	3	ž	3	2	92	96
I II	to a sincer t ref mostiliat is sample of dries lamson			æ	95			•	Ł	8	10	18	114	8	3 :	8	g	#
ASTA	Lercontage of califyated to normal c vated area.			දු	100	161	٤		101	2	8	8	8	101	8	8	101	8
10 01 11	ogsigion T siglar faloi glasi famion		_	19	3	ž	9.0		5	g 	6	97	203	108	۶	: 8	3 8	23
	Radi sres.			346 040	345,391	411,000	203,387	457 780	A TO	ara'co.	200°	340,399	376 716	396,112	300.541	180 240		3
	Kharij Lrek.		Acres.	440,107	43,660	417,238	436,786	168 R.M.	00000		110000	X (0.7)	20,038	100 007	£11 T3	150 85	4.00.479	
	Not cultivated area.		Acres.	198,820	636,813	102,820	110,830	662.676	64.180	014.00		010,010	190 000	631,871	162,820	641,166	636,637	_
	From Novem ber to March		_	F	*	20	3,6	2 41	8 16				27	¥-	141	1 14	1 (1	_
Rainfall,	From Septem ber to October 31			4	n	19.5	8.8	8 7					R	25 26 26 27	14 36	2 77	1.8	_
	From April 1 to Aug ust 31.			24.0	37.3	34.0	29 7	15 94	28 59	8				88 83 	15 00	26 71	24 21	_
	Total.			<b>7</b>	B 55	95	8	37 43	37 46	27.88				2 2 2 2	38 03	8	35 18	-
~	Your			1901-03	1904-03	1903-04	1904-06	1905.06	1906-07	1907-08	1008-00	1909-10		11-0141	1811 13	1912.13	1912-14	

									(	-	ט	J						
100	105	105	108	91	66	96	100	106	102	103	104	66	101					
10	181	09	177	38	106	34	118	156	144	98	118	30	7:9	<del>,</del>	 			
93	98	86	101	96	97	95	96	91	98	94	94	96	97	· · · · · · · · · · · · · · · · · · ·	 	<del></del>		
126	66	122	101	61	80	91	100	121	81	85	123	7.1	78				-	
100	101	103	101	97	100	100	101	101	103	102	102	102	103					
GO	117	103	117	20	98	92	10	128	944	33	121	7.0	01					
367,852	386,394	394,910	398,549	335,168	362,618	351,910	366,660	388,985	374,594	377,415	381,185	364,882	378,315					367,852
450,000	453,007	449,750	464,610	436,318	446,739	439,671	440,617	432,878	452,020	435,630	433,446	442,902	148,457				•	640,900
634,171	642,513	652,743	657,285	617,732	953,155	635,691	642,245	617,511	652,381	648,744	649,629	647,338	655,730					634,171
2 56 {	97	83	47	2 64	1 04	1 25	1 70	1 66	15	1 35	1 98	2 59	6 25					1 81
1 98 1	18 32	6 07	17 94	3 84	10 79	3.43	11 99	15 78	14 56	8 70	11 96	9 13	6 51					10.13
35.71	28 35	34 85	29 04	17 41	22 95	26 14	28 74	34 76	23 32	24 50	35 25	20 46	24 04					28 68
40.25	47 64	41 75	47 45	23 89	34 78	30 82	42 43	52 19	38 03	34 55	49 19	32 18	36 80					40.05
1914-15	1915-16	1916-17	1917-18	1918-19	1919-20	1920-21	1921-22	1922-23	1923-24	1924.25	1925-26	1926-27	1927-28					Normal

Relation between fluctuations of rainfall and harvests

The total cultivated area generally increases or decreases with the fluctuations of minfall. This is ovident from the adjoining table. We see that the percentage of total minfall to normal rainfall in the year 1916-17 is 103 again the corresponding figure for the percentage of net cultivated area to normal net cultivated area is also 103. Again in the year 1921-23 the percentage of total minfall to normal rainfall is 104 while the percentage of net cultivated area to normal net cultivated area is 101. We see some differences in the two percentages in a few cases of the adjoining table. This is due to the fact that the cultivated area is not entirely depending on rainfall but on the well imagation facilities.

#### Relation between kharif and ramfall

As the runfall between April 1 and Angust 21 increases or decreases there is a corresponding increase or decrease in the kharif area. Kharif crop depends more on rainfall than the rabi crop. In the vear 1015-16 the percentage of runfall from April 1 to Angust 81 is 99 and the corresponding percentage of kharif area to normal kharif area is 98. Again in the year 1017-18 the percentage of rainfall from April to August 31 is 101 and the percentage of kharif area is also 101. Again we see that the two percentages are identical viz. 100 in the year 1906-7.

### Relation between rabi and ramfall

Rabi does not depend as much on rainfall as kharif To some extent the rabi area also depends upon rainfall between September 1 to October 31 In the year 1926-27 the percentage of rainfall from September 1 to October 31 was 90 while the percentage of rabi area to normal rabi area was 99 These figures go to prove that rabi does not depend much on rainfall

Wells are defence works in unfavourable years of reinfall. It is olearly indicated by the sudden expansion of the well irrigated area whenever the rainfall is deficient. What is more common in Jaunpur is that rainfall is irregularly distributed. This will be evident from

the following table -

Year		Percentage of deficiency of rainfall	Percentage of well-irrigated area.
1001 00		39	91
1901 02		83	97
1907 08		17	0]
1918 14		41	67
1018-19		ï	
1926-77		'n	7
1927 28		.,	•

The expansion of the well irrigated area adequately protects the rabi crop. This is indicated by the fact that in unfavourable years the rabi area shrinks little if at all

Relation of net cropped, twice cropped and irrigated area

Year	Tota <sup>†</sup> cropped area	Aren cropped more tlian onci	Irrigated area	Percentage of twice cropped area to total irrigated area	Percentage of irrigated area to total cropped area
1901-2	789,230	159,369	•		•
1902 3	820,156	181,614		•	
1903 4	830,187	191,686			
19,4-5	832,861	181,190	•		
1905 G	822,955	180,280	•		
1906-7	816,940	172,780	361,736	48	44
1907-8	767,149	153,200	339,582	45	44
1908 9	777,716	165,100	318,859	47	45
1909-10	808,491	178,440	351,781	50	44
1910-11	827,510	189,633	217,621	87	26
1911-12	812,339	184,048	242,102	76	30
1912-13	820,829	178,663	371,234	48	45
1913-14	809,940	173,403	354,077	49	44
1914-15	801,180	167,009	363,684	46	45
1915-16	841,862	199,349	361,811	55	43
1916-17	846,551	123,803	371,006	52	44
1917-18	864,650	207,365	372,820	55	43
1918-19	773,618	1,55,886	361,973	43	47
1919 20	811,084	175,929	368,637	48	45
1920-21	793,451	157,760	371,787	42	47
1921-22	808,863	1,66,618	356,037	47	44
1922-23	823,648	176,107	367 <b>,4</b> 80	48	44
1923-24 1924-25 1925-26 1926 27 1927-28	829,121 814,788 816,758 809,670 823,696	176,740 166,044 167,099 162,332 167,966	357,412 342,737 357,772 353,220 131,856	49 48 47 46 127	43 42 44 44 16

### Relation between irrigation and double-cropping

Double-cropping depends mostly on irrigation facilities. As arrigation facilities increase, the double-cropped area also expands Jaun pur has the benefits of an adequate rainfall. Moreover Jampur 18 woll provided with pakka wells. Thus the security of warter-supply is very great as is evident from the adjoining table. In the year 1927 28 the arrigated area was 127 437 acres, while that arrigated by wells was 123 380 This shows that wells irrigate 77 per cent of the total irrigated area. The relation of double-cropping and irrigation facilities can also be established by taking the percentages of irrigated area to total cropped area and of twice cropped area to total irrigated area. As the percentage of urrigated area to total cropped area increases or decreases the percentage of twice cropped area to total arrigated area tends to rise or fall. In the year 1920-27 the percentage of arrigated area to total cropped area was 14 the corresponding percentage of twice cropped area to total imigaded area nes 46

Relation of well stripated to strigated great

	Wells. Wells					Percentage	
Year	Masonry wells.	hachoha wells-	tructed during the year	Total	Irrigated area.	Ares irri gated by wells.	of wells intigated to total intigated area.
			í				
1901 2	l			42,214	259,228	3*6,147	91
1902-3	}	}	}	43,415	358,093	314,116	68
1903-4	}			12,400	365,665	283,154	77
1904-5	1			37,997	185,906	188,901	75
1905-6	27,019	13,413	243	40,675	234,904	290,698	87
1906-7	27 075	14,873	689	45,187	354,943	329,370	93
1907-8	27,913	18,261	619	16,792	331,309	311,591	97
1906-9	28,891	18,431	1 184	48,446	343,496	384,631	97
1909-10	29 605	17 725	911	48,331	350,087	315,437	90
1910-11	28,748	14,856	680	44,284	214,194	100 143	79

Marine Marine Ma	Web-		li elle	, Re	According to the second of the		Percentage	
Year	Mar inti urlls	ار ترکیم سه	cons trust i durin, the near	1 +2 7 Å	gir,, sted tra	Arra nu ententa tenta tenta	of wells uris sted to total urisyste l area	
Resident which was to receive the type			Appropriate to the				2022474	
1911-12 .	्रे भूति । भूति ।	1: 167	4163	*1,560	237.739	1810]]	7.	
1912 13	30.74	₹1 ~ 1	707	35,011	70,71	3 2 m ple et	91	
1913 14	31,551	<b>≩</b> 85 € 1%	31711	10,279	115 707	310 170	95	
1911-15	72044	17 170	716	50,240	354.653	v 10 % 1	4,	
1915-16	1 12 7 47	17,216	ลรา	50 20%	167,124	200770	<b>S1</b>	
1916-17	1.32,603	10 400	577	50 03*	205,513	293,310	4()	
1917-15	32 000	10.070	640	39,636	165 452	193 394	50	
1018 10	37,5,6	16 61 5	491	56.934	151651	813,130	97	
Iolo "o	\$4,167	16 126	519	50,700	163 070	325,907	90	
1920-21	31 67.	16 2.6	093	51,461	7(1741	810-613	93	
1921-22	35 013	15 745	662	61,118	352 51 1	316,961	90	
1922 23	35 173	15,185	700	51 327	363 646	305,351	85	
1923 24	35,752	11615	671	51,071	153,028	303,015	56	
1924-25	36 031	11,178	458	50,667	355,761	295,149	87	
1925 26	36,163	13,235	582	50,251	353,302	312,159	88	
1926 27	36,979	12,027	555	50,161	310,596	316,101	91	
1927-28	35,209	11,302	386	46,987	127 137	121380	97	
			1					
		[	1	i	1			

Relation between well irrigation and size of holdings

Well irrigation is always associated with small holdings. The percentage of well irrigation to total irrigation in our district is 97, while-the size of holding per cultivator in the year 1927-28 was 35 acres

The proportion of well irrigation and the size of holdings in the important well-irrigated districts in the United Provinces is given: below —

Year	District,	Percentage of area irrigated by wells to total irri gated area.	Average size of holding.
1027 28	Saharanpur	45	10-4
10*7 28	Aligarh	60	9-5
1027 _8	Allahabad	64	6-7
1027 8	Fyzabad	72	4-3
19*7 28	B-mares	9*	4-6
19*7 _8	Asamgarh	90	3.4
1927 _8	Janaput	97	3-5
	'	'	

It is clear that holdings are generally speaking larger in districts where well irrigation is smaller and smaller where well irrigation is larger. Thus there is an inverse correspondence between the size of holdings and extent of well irrigation.

### CHAPTER IV.

### THE STANDARD OF LIFE.

It is an economic-law of the greatest importance that the earnings of any class, whether wage earners or agriculturists, tend to conform to their standard of living, which is judged by the income and expenditure of the class in question. 'The standard of living' is an elastic phrase, and it would be a hasty judgment to say that the standard of living of the people of Jaunpur is very low.

The life of an Indian cultivator is of the simplest kind as compared with the advanced countries of the West and Japan. In the majority of the villages bread made of maize, bajra or barley accompanied by pulse, and in rare cases by small quantities of vegetables, form the main dietary of an ordinary villager. It is only the rich who can afford to take ghee, while the rest of the population have to live on coarse food, and in many cases the quantity of food is somewhat insufficient and is very deficient in nutrition. Their clothing is very rough and cheap and their houses are made of mind walls and thatched roofs. They do not possess special clothes, as is common in the Western countries, for going to Church or appearing in public on special occasions. To arrive at a correct estimate of the standard of living of the people of the district we have to consider how far their food, clothing and shelter are sufficient to maintain their economic efficiency

It would be better at this stage if we consider the budgets of some of the villagers of the district.

Annual family budget of a Brahman family consisting of 3 biothers 4 women and 3 children owning about 12 acres of cultivable land —

Income

### A -From the field-Rs a (1) Jwar 8 maunds valued at 30 0 (2) Arhar 6 maunds " 30 (3) Tobacco 50 0 0 (4) Urd 3 maunds 25 0 0 (5) Til 1 maund 10 0 0 (6) Rice 10 maunds (7) Marze 12 ,, 45 0 0 (8) Kakom 2 ,, 10 0 G

								يان		
(P) Grain	20	maunds	тайно	d at					0	
(10) Barley	IS		n					80		
(11) Wheat	18							120		
(1 ) Mattar	6		,,						0	
(13) Sarso	u		n					50		
(14) Car	12	n	**						0	
(15) Sale of	surpi	ua bhusa						20		
							Total	700	0	0
li —Othor sout	coo (a	no beath	er is i	a serviα	o)			50	0	0
								730	0	0
less-				Re s.	. P.					
Land revenue	(hr	(kpd)		°7 8	0					
Payments n	modo i	to labour	613	100 0	0					
end-										
Fasilof Katil	k	6	0							
Ditto Ass	rh	10	0							
Rugaroano		1	0	<b>50</b> 0	0		207 8 0			
		•	~							
				Yet in	00726		543 8 0			
		•								
			E	x pendi	iture					
Produced at	lone					I	ta ta		Rs.	
(1) Barley	11	mannda	yahu	ed at		G	0			
(3) Gram	11	~				ō	0			
(3) Wheat	8			.,		4	3			
(4) Dal	4	-		•		7	0			
(5) Rice		•					B -	-	33	

BPurchased from the mar	·ket <del></del>		4	Rs.		$Rs_i$
(1) Clothing		•	•	70		
(2) Footwear	••	•		10		
(3) Saltand spices	•	•		5		
(4) Utensils			• •	5	1	
(5) Drained sugar	•	•		10		100
C —Other expenses— (1) Repairing of house	es		-	5	,	
(2) Kerosene oil		•	**	3		8
D -Miscellaneous expense	8					
Litigation	••	•		20		
Miscellaneous	• •	•		20		
Medicines	••	•	•	5		45
E -Social expenses-						30
F -Purchases of cattle and	other agrici	ıltural ı	nproveme	nts-		
l pair of bullocks		•	•	100		
Construction of a	well			400		500
					Total	836

There was deficit of Rs 293-8-0 and the family actually incurred a debt of Rs 300.

In this case the land revenue is only Rs 27-8-0 as the owners were zamindars before and after selling the property retained 12 acres of sir land

The expenses of cattle and the construction of pakka well are non-recurring.

On the whole the family is quite prosperous

Annual budget of a family of Chamars consisting of 1 man, 1 woman and 4 children owning about 8 acres of land as occupancy tenants:—

## Income.

A -From the field-	_						$R_{\mathbf{S}}$
(1) Wheat 5 mar	unds v	alued at				••	25
(2) Barley 10	,,	,,				••	45
(3) Gram 10	,,	,,					40
(4) Maize 10	"	"	••	•		•	40
(5) Arhar 2	**	,,	• 7		•		6
(6) Sarso 3	,,	,,					20
(7) Gur 8	,,	,,					40
(8) Sale of surpl	us bhu	iea.		•		•	20

B -Sale f ghee		Ra,
C.—Earnings of children		30
		4
ion-	Total	270
	Ra	
Land recense	72	
Seed	20	102
	\et incomo	168
	Expenditure	
Produced at home-	Ra.	
Gram 12 manuals valued at	48	
Barley 12 "	48	
Mahre 4	16	
Dal	10	
Car	9	124
Purchased from the market-		
Tobacco	4	
Clothes	20	
Spices	3	
on	2	
Medicines	1	
Sundries	15	46
	Total	170

Both the moome and expenditure sides balance

The net profit per bighs is Rs 14 but if the peasant s own labour is fairly valued he is working at a loss

It is evident from the above family budget that nearly Rs. 74 of the net income is spent on food. It is clear from the above expenditure schedule that there is no provision for such necessaries of efficiency as milk and gibse or better implements

#### The average agricultural income

About the year 1900 the average annual income of an Indian was bifficially calculated to be Rs 30 and taking an average family to be of five members the average annual family income was Rs 150 In

1911 the figure went to Rs. 80 per capita. In 1921 the average income table for Madias Presidency was Rs. 100, while for Bombay in rural localities it was Rs. 75. Now let us suppose that the average income of a villager is Rs. 80 at the present day in our province. It wil be probably less in this Province as the dependence upon agriculture is greater and the size of the average holding less than in either Madias or Bombay.

More than anything else this governs the standard of hving of an agricultural people. It is a matter of common knowledge that the holdings of agriculturists of this province are divided amongst them into very small plots and they generally range from 12.4 acres in Jalaun to 3.4 acres in Azamgarli. The average size of a tenant's holding in our district is 3.5 acres. The smallness of the holding makes cultivation totally inneconomic and leaves no chance for the cultivator to produce sufficient to support himself and his family in reasonable comfort after paying all his initial expenses. The situation becomes still worse when a farmer cultivates more than one field. As is usually the case they are often separated from one another by long distances, with the result that they have the exils of both under-sized and scattered holdings.

Nearly 76 per cent of the total population of the district depend upon agriculture as a chief source of their livelihood. Due to the over-crowding of agriculture the struggle for existence is becoming keener and keener, resulting in a tendency towards lower standard of living. In the following table we compare the percentages of net cropped area and the crise in population for the last 30 years—

	Percentage of increase of total net cropped area, 1891—1921	Percentage of total increase or decrease of population, 1891—1921
Gorakhpur	2 4	+9
Bastı	5 4	+8
Benares 😽	9 7	9
Jaunpur	1 3	9

Here we see that the total cropped area has increased by 1 3 per cent while the population has shown a downward trend and has decreased by 9 per cent Population rapidly multiplied during the last century,

but now the expansion of both cultivation and population has been checked, and it is open to doubt whether the average individual is better off than a few decades ago

Another factor which can give light on the pressure of population is

the double-cropped area

Zear	Inigated,	Non irrigated.	Total	Increase or decrease per cent
1923 *4 19 4-23 19-5-76 107-6-27	Acres 3,484 3,076 4,230 3,6_4 4,410	Acres. 173,236 16.,068 16.,719 158,706.	Acres, 176,740 166 044 167 009 162,533 167 966	-6 +6 +63 -28 +84
Total	19,883	820,298	840,181	
Аунталь	3,077	184,060	168,057	

From the above table it is clear that the double cropped area has increased in the year 1927 28 by 8 4 per cent. It shows that the pressure on land is becoming harder and harder

At the last census of United Provinces 1921 carried on by Mr F H H Edve the number of births in the district between 1911 and 1920 were 448 889. The deaths in the same period were 450 799. thus there was a deficiency of births over deaths by 1910 Various causes account for this. The first is the influenza epidemic of 1918 and the other is the great world war. Although actual deaths in the war were very few yet the absence of so large a portion of able-bodied men from their homes for a long period indirectly affected the buth rates

The whole population of the district can very easily be divided under five principal heads viz agriculture industif commerce profession and others Agriculture supports 875 297 persons or nearly 76 per cent of the total population industry 113 773 or nearly 10 per cent commerce CO,270 or 5 per cent professions 7 440 or 1 per cent and other 98,816 or 8 per cent of the total population Dr Harold H Mann who made a special study of the economic conditions of rural areas and who was for nearly a quarter of a century in intimate touch with agrarian problems, says, "No country could ever hope to be prosperous if the majority of the population were idle for 5 to 6 months of a voir. The people must be given some work no matter how small the income derived therefrom during the dry season." The masses of Jaunpur need small-scale occupations either as a substitute for agriculture or as supplementary to it. There are a few sugar mills scattered here and there. Jaunpur is famous for oil and itrespectively throughout the whole of India. There are about 12 factories in the whole of the district. These oil factories and sugar works cannot provide sufficient remunerative work to a very large number of unemployed agriculturists during off season or bad harvest. Naturally, these agriculturists run to commercial centres to earn their daily bread.

Indebtedness varies from village to village Cultivators borrow money at the time of sowing and repay the same at the time of harvesting. The rate of interest differs from 12 to 50 per cent in ordinary cases. Where the holdings are very small the rate of interest goes up. The introduction of valuable and heavy yielding crops (sugarcane, vegetables, etc.) has reduced agricultural indebtedness to a very great extent. Another point to be taken into consideration is the increased agricultural efficiency of the district resulting from improved methods of cultivation, particularly in the matter of double-cropping, the use of manue and irrigation and the introduction of sugar presses and the establishment of sugar factories. Indebtedness is not so serious an evil in Jaunpur as in other neighbouring districts. The tenants at fixed rates at all events possess abundant credit and can raise money at rates which, comparatively speaking, are far from exorbitant.

The food which the cultivators consume is very unsatisfactory. In the real sense of the word they stuff their stomachs with coarse food which has no nourishing power. Vegetables and fruits do not form a part of the villagers' diet, they remain contented with dal and bhat. Athan pulse is very common. Rice as compared with wheat is less nutritive and less expensive. Ghee and milk are classified as luxury, while in reality they help efficiency. Fishes are plentiful, and often eaten. On ceremonial occasions bread of wheat is eaten. The Kshatinas are very fond of meat and they eat the flesh of goal and sheep on special occasions.

The climate of the district is such that the cultivators do not require much clothing. They generally put on a dhoti and nothing more. The women folk put on a sam and a short jacket. On special occasions,

when the villagers go to the cities they would put on their angarkha, turban and dhot; and this would constitute their foll dress

The houses are generally made of mud walls with thatched roofs. There is no proper provision for ventilation. Not one cultivator in a clousand resides in rented house. There are no furniture excepting the cost. The more well to-do cultivators live in better houses than was formerly the case. Their women wear more jewellery and metal intensis are also in duly use in their households.

### CHAPTER V

### EMIGRATION

One of the most important factors influencing the variations of population is emigration. People leave their homes, friends and familiar circles and go out to earn their livelihood in regions unknown and unfamiliar because their native villages cannot provide them with adequate living. The pressure on the land has become so acute that it is very difficult for an ordinary cultivator to make both ends meet merely by following agriculture. In order to increase the family income one or two members of a family often choose to emigrate to some industrial town. There are various types of emigration.

# Temporary

A large number of cultivators go to industrial centres during off seasons and bad harvests. They generally return during the busy season. Another type of temporary emigration is due to plague or other epidemics. Normally such movements are of a trivial nature, to the nearest grove or to a distance of a few miles. But instances occur when people migrate to another district or even leave this province. A large number of people migrated to Benares from Jaunpur during the plague in the year 1911.

Permanent emigration—emigration in search of work

This is chiefly from the Benares division. The pressure on the land has long been considerable in these parts. Mr. E. A. H. Blunt remarked in United Provinces Census Report of 1911 that there is not a single family in the Benares division which has not at least one member in the provinces of Bengal, Assam and Bihar and Orissa. The lower classes go as labourers to Howrah, Calcutta and to the plantations of Assam and the higher as door-keepers, peons and so on

- (2) Riverain emigration —Practically the whole of the extensive river traffic of Bengal is in the hands of men of this province
- (3) Emigration to collieries —The Pasis of Oudh go in large number to the mining areas
- (4) Military emigration —A large number of soldiers are recruited from Rae Bareilly

(5) Emigration of domestic servants — Janupur and Sultanpur supply about half the total number of syces and grass-cutters from Peshawar to Calcutta They are mostly Janwars Chamars and Koens Janupur also sends its famous Lumyas wherever there is earthwork to be done

The progress of migration in the district has been as follows —

Year		Emigrants.	Immigrants.
1901		158,851	"1 463
1011		159,137	74,039
10 1	-	139,229	59,579

Plague was severe in Jaunpur at census time in 1911. Increase in population of Bonares was due to the refugees from plague from Jaunpur and elsewhere. The population wrote Mr E A, H Bloot has lost a great deal by emigration, and indeed a great deal more than the figures show for there is extensive overseas emigration from this distinct. The temporary decrease of immigrants plus the impetus given to emigration have between them turned the increase shown by the vital statistics into a decrease. In 1921 the number of emigrants decreased from "4550 to 50 570 Migration has decreased proportionately to the decrease of population

Emigrants largely exceed immigrants there is a considerable flow of labour to Bengul Emigrants who go out send money to their villages for family expenses and it is interesting to note that twenty three and a half lakhs of ropees were sent to Jampur by the inland emigrants and Rs 31,333 by foreign emigrants in 1910—

District.	Year	Amount n lakhs.	Inland (lakha)	Foreign (thousands).
- · · ·	1895	Ot 1	19	5
Ballia	1905	17	<b>,</b>	
Ja unpur	1903	14	223	311
Ghasipur	1905	131	18	61
4	1895	91	20}	120
Assumment {	1903	14	- 1	'

District.	Year.	Amount Inland (laklis).		Foreign (thousinds)
Sultanpur .	1005—1907	20	237	6}
Fyzabid .			24	11
Benares .			13	41
Basti .			12}	9
Gonda .			117	G
Gorakhpur			21	63

During 1928-29, a sum of Rs 534 lakhs was paid by money-order; a considerable part of this represented emigrants' remittances.

There is considerable emigration of temporary nature in the district. Generally it commences with the closing of the monsoon and ends with advent of summer. This is due to the fluctuations of the demand of labour in the fields. Agriculture is the main industry of the district as is evident from the table given below.

1-	<del>,                                      </del>			
	pournded po	** pendanta.	1)	Ş
	otual workers. Percentage of population		1	28
Others	Proportion of population per I 000 of district population.		1	\$
_	rother.		98,316	
1	-lo nolislugoq	Dependanta	5	10
ğ	Percentage of professional	detest sectors,	1 3	a
Profession.	000 f req noisalagog lan	oissolord to nothrogord oitsingog tehrisile to	2	Đ
	A hentesston	Population supported b	5 403	7 440
	—jo noimhiga	Dependants.	<b>\$</b>	120
94	Istrammon lo againsors [	Actual workers.	ಕ	\$
Соппини	000 1 and nother per 1 000	Proportions of community of districts	8	2
ಶ	Population entpoored by commission		41194	60,279
	—lo notaledoq	Dop-ndente.	3	8
	islitanbul to onsanterial	Antina lantah	6	3
Industry	to 001 rad notation per 100 of	national to normogord antitional population	g	8
Ind	Tuenbal to harroppus nonsologof		106,796	113,773
	bologenou on-	Dopendanta	\$3	Ş
	farmitroires of autoh		4	8
Agriculture.	Proportion of seriouliura; population por 1 000 of dirities population.		8	758
μåγ	Population supported by Agriculture,		943,708	8715,297
		Years.	11011	ž.

From the above table it is clear that the pressure on land has decreased to some extent at the last census. In the year 1911, 81 6 percent of the entire district population was supported by agriculture, but now agriculture is supporting 75 8 percent. Further, in the year 1911 every 11 workers engaged in agriculture had to support 14 dependants, now 53 workers have to support 47 dependants. Families, agricultural by origin, show a tendency to resort to industrial, commercial, professional and other pursuits.

# Lack of subsidiary industries

Jaunpui is renowned from the time of the Sharqi Kings as ani important oil and scent producing centie, but this industry is not so important as to alleviate pressure on the soil Moreover, the industry is not on such a large scale as to engage considerable number of workers, but is There a time when carried on in the old primitive style was there were indigo factories employing a considerable number of labourers, but this industry has totally declined owing to the keen competition of Germany The same is the case with the paper manufacture. of Zafarabad, a pargana in the district The labourers of that industry are working in the Lucknow Paper Mill now as they could not face thetition Sugar refining is the only other industry worthy of men-The sugar mills are busy in winter and employ only a small fraction of the idle labourers of the region There is, on the whole, an inadequate number of industrial occupations in the district, hence emigration is resorted to —

## Emigration

Year	Total emigra- tion	Contiguous district or state in prov- ince	Other parts of prov-	Contiguous guous parts of other prov- inces and states	Non-con- tiguous parts of other prov- inces, etc
1911	159,137	87,000	22,000		50,000
1921	139,229	73,000	14,000		52,000

More than half the emigrants are working in the province and 52,000° are working in other parts of India A large number of the Chamars governy year from Kerakat, Jaunpur and Machhlishahi tahsils and worker as syces and grass-cutters

('ommercial cities of Bengal and Bombay have become the favourite resorts of people from this district. During the months of October to April a large number of labourers work in the factories and get higher wages.

Emigration to the tea plantations in Assam from this district has simost ceased as is ovident from the table below —

Ter gardening

10's gardening								
1 est	Halo.	Female	Dependants	Total				
1023	- 1	1		2				
19*6	3	1	5	ע				
10°7		1	0	9				
19 8	1	•	1					
	' 1		( 1					

In 1926 one Mr T Martar was commissioned by the tea magnates of Assam to inquire into the possibilities of the recruitment of labourers to the tea estates. He summed up the results of his inquiries in a short sentence which runs thus — There seems no possibility of obtaining labour from the eastern districts at present. We have to wait for some years until the prejudice about the tea plantations has cooled down. Persons who have returned from the tea estates tell tales about the atrootties to which they were subjected by the employers during their stay in Assam. The villagers are so much frightened by the tea estates that they regard them as another. Kala Pam. Another reason for this prejudice among the villagers is that many labourers died there due to malarial fever.

### Emigration as a result of failure of crops

Crops generally depend upon irrigation facilities. The kharif depends upon rainfall more than the rabi. During the recent failure of the kharif crop while we were fouring we found that about 20 villagers had migrated to Celcutta and other distant centres from a single small village of Ambar pur. We were told that it is bathua (a kind of grase) and sakarkand which were keeping alive the population otherwise people would have starved or migrated en masse to some other industrial centres in hunt for their livelihood.

When a man is outcasted by the members of a caste he seeks shelter in some big city. This is also a cause of emigration, but the figures under this head are negligible

The total number of emigrants that sailed from Calcutta to various-British Colonies between 1901 and 1910 and who belonged to Jaunpur was 3,007 Between 1911 and 1917 the number was 701 With the end of the great world war this emigration has ceased

This year the emigration is still brisk owing to the failure of the kharif crop. As the pressure on land has been considerable, there is adirect correspondence between the volume of emigration and condition of the harvests

### CHAPTER VI.

#### AGRICULTURAL WAGES

In our district us the size of holdings is very small there is no great demand for hired labour. If the cultivator engages hired labour his field will not pay at all. Hence wages are low. On the considerably high and the number of expropriated tenants or land-owners is increasing decade by decade.

## Increase of landless labourers

The growth of population has reacted very unfavourably on the economic life of the people Holdings have become more and more under sized probably the holdings are the smallest in the provinces being 3 5 acres her cultivator Cultivators are in a very precanous condition either they must supplement their incomes or surrender themselves completely to the monoy lenders. Those cultivators who have very small holdings often work as Halwahas or agricultural labourers in the fields of big cultivators. This has become a prominent feature in the country side.

The Halvalias are agriculturests by origin but have lost their cultivating tenures and have taken recourse to domestic service and are freely employed by high cultivating classes both the Brahmans and Kishtrivas who are forbidden by religion to all the land themselves Mr. G. Kentinge remarks in his Agricultural Progress in Western India. — We have the landless labourers who work for hire a class which is steadily recruited from the smaller landholders as the pressure of population in the most densely peopled tracts squeezes them out of the position of landholders.

The causes of this abnormally high increase in the number of Halwahns are manifold. The lack of sufficient work for the people is a common complaint in India. The work done by an average cultivator in the Punjah does not represent more than 150 days work in the vear. Thus they are out of employment for 200 days in the year. For this period they should have some work. This will keep them engaged and also supplement their incomes. The Banking Inquiry Committee have recently estimated that the United Provinces peasant is occupied outside the more intensely cultivated areas of the Province for not more.

than 200 days If the holding be very small, the cultivator's family is not fully employed even in the busy season

## Absentee landlordism

Absentee landlordism has also contributed a great deal to the increase of agricultural labourers in the district. Landlords usually migrate to towns and do not know what is going on in their fields; it is in reality their farm servants and field labourers who manage their lands. Absentee landlords have nothing to do with cultivation, they want their rents only

# Wages paid

Actual wages paid differ in different villages. Only some 10 years back wages were paid in kind. In the time of Akbar land revenue could be paid in kind, but now the practice of paying rent and wages in kind is fast dying out. In most cases farm servants are given rent-free lands for their services by the landlords. It would be better at this stage to consider the wages paid in different villages.

# Ambarpur

Farm servants are paid both in cash and in kind. A ploughman gets four annas for ploughing a field up to 12 o'clock in the day adult labourer, male or female, is paid two annas per day or a seer and a quarter of barley Boys are paid at a siightly rate, 1 e, they get one anna per day When a labourer is employed for spadework in the field he is paid the usual two annas together with satua in the noon or some other charban (a kind of coarse food) the time of khaliani (harvesting) the bailer, washerman and blacksmith all come to take their share In villages these baibers, washermen, etc., are not paid in cash as in cities, they are paid at the harvesting time at a fixed rate Suppose a barber crops the hair and shaves a man all the year round, he will be paid 5 seers of bailey and one bun lle of unhusked barley in Chait or reaping season. In the same way washermen are paid according to the number of women in the family. Thus if there is one woman in the family, the washerman will get two and a half seers of barley together with one bundle of unhusked barley The Lohar as also paid the same amount

# Baragaon

Baragaon is a prosperous village some 6 miles off from Shahganj, a tahsil in Jaunpur Wages are considerably higher here than in Ambarquir, a village in Mariahu tahsil. Here ploughmen are paid at the rate of eight annas per plough. Male and female labourers get five annas

per day, while boys get four annas The Lohar gets 15 seers of corn per year, while the Dhobi gets 5 seers per year per female The Nan (barber) is paid 5 seers per year per man

### Mangra

Mangra is a very village two miles west of Bhanaur station. The ploughman (Halwaha) is given four annas per diem. Fiel? labour is also very cheap and the wages are not different for adults make or founde and boys. It is enstomary to pay all of them at the same rate. Here wages are generally paid in kind. When a labourer is engaged in harvesting a rice field he is given two seers of corn per day. As regards the wages of the Lohar Dhobi etc. it is the same as in other villages.

These stray cases of three different villages will suffice to illustrate differences of wages in different areas

## Effect of law wages on the standard of living

Farm servants are chiefly recruited from the Chamar Lonis Koern and Kewat castes. They generally get very low wages thus their standard of life is the lowest. They generally his on very coarse food and are very poorly clothed. Their houses also are very insaniary and dingy.

## Comparison of agricultural with industrial wages

Industrial wages are higher than agricultural wages. The highest agricultural wage which the ploughman gets is eight annas per diem while carpenters blacksmiths, masons and other skilled labourers draw much higher wages. In Jumpur proper the carpenter gets one rupes per day the mison gets fourteen annas and the blacksmith gets twelve annas per day. Unskilled labour which is chiefly employed in agricultural very cheap. There is a marked difference between the standard of living of an industrial worker and that of an agricultural worker An agricultural worker cannot meet the requirements of his bare necessities, while an industrial worker can very easily have his necessities and can have some articles of efficiency as well e.g. milk or some give in his dal

Wages differ according to the seasons Wages are chesp in villages from October to April and high during sowing and harvesting times.

One special feature of rural economy is the employment of women as partners in different agricultural operations. A good physique enables them to work successfully as co-partners in the open fields. When crops are growing weeds thrive and these are required to be exterminated. Women are generally employed in this work which is known as - sohu.

or weeding Besides sohm women are engaged in harvesting and assisting their husbands in sundry work on the fields and also in fishing and gardening. Women are generally employed because they get lower wages. They participate with their husbands in practically all works except digging and ploughing.

Wages are very low when the harvest fails When the labourer is starving he would be willing to work even on very small wages. This is exactly what has happened this year owing to the failure of the kharif crop

The general wage level in the district is very low and is a striking index of low standard of living. The pressure of population, small hodlings, small income, idle days and low wages, all have reacted very unfavourably, on the economic life of the farm-hands. The condition of the agricultural labourers cannot improve unless their number is reduced by systematic emigration to different industrial centres. Unless this is done the agricultural labourer will be living below the economic level and cannot even in the best of years make ends meet.

### CHAPTER VIL

### RURAL HOUSING

The question of providing well built and sanitary cottages in India is of great importance. There are very faw cottages in villages which can be considered satisfactory from the sanitary point of view. In the average village the great majority of the cottages are made of mud and contain no provision for ventilation. They have usually no drainage and are often crowded together in a pell mell fashion. They have no proper provision for the softage of grain and fodder nor have they proper accommodation for cattle. The water supply of such villages is invariably from shallow wells and the water in these wells is aften pollinted from the surface.

The result of these conditions is that a high mortality from prevents ble diseases prevails in practically every village of the district

Such is not only the condition of the Jaunpur district but generally speaking of all the castern districts of the province. Hence the problem of rural housing demands careful and immediate attention of the people at large. On account of grinding poverty the villagers cannot care much for their houses 90 per cent of their total expanditure are on food clothing rent and interest. Little is available for making per manent improvement both in land and housing. The average villager is illiterate and hence he cannot realize what decent housing means

Pressure on the accommodation in the lints is the chief feature in the villages due to the rapid increase of population. Better methods of cropping and rotation of crops have been adopted but the problem of housing is totally ignored at the cost of health and the amenities of life

Houses are clustered together at all angles in a congested space resulting in dense overcrowding. There is no village road as in Bingland finished on both sides by stone or brick houses with a few shops the village church the village inn and the recreation room located here and there. Indeed in the English sense of the word there is rarely a village.

at all, although in several parts of the district the homesteads of the villagers are grouped together in clusters Nowhere are houses built of masonry, nor is there a single row of houses as is usual in the European villages Worship among the Hindus is a family affair celebrated in their own houses, while amongst the Muhammadans it is congregational. common than temples are more mosques oi one engaged some the district, whether cultivator а The peasant or the hired house other profession, lives  $\mathbf{m}$  $\mathbf{a}$ although paying rent for the land a landloid. to always builds his own house at his own expense This custom with all classes of the community, and we doubt if one man in a thousand in any part of the district lives in a hired house or in a house not erected by himself or at his own expense This has always seemed to us one of the most effective points of contrast between Indian and The homesteads do not display as much variety English conditions in construction or arrangement as might be expected on this account. They conform to a common type amongst all classes of the community, and tend also to cover almost equal extent of ground

The huts generally consist of only one dingy room which is kitchen, dormitory, parlour and in many a case cattle-shed combined into one. There is generally one door at the entrance. The only furniture of the house is cots. The absence of furniture is more a question of poverty than of anything else, although climate has some influence. The huts vary in size and number according to the prosperity of the family

The first impression of even a most casual visitor in these little huts is that they serve much more the purposes of a dormitory and storage than as places where humanity can comfortably live. The man who rises at dawn and does not return from work before sunset spends very little time inside his house.

In most cases people keep their cattle just in front of their houses, under some tree if available Naturally the excreta of the cattle poison the atmosphere of the locality. This tells a great deal on the health of the villagers. Brought up in such foul atmosphere they have no idea whatsoever about sanitation. Hardly out of hundred houses one house has got a window. The cottages are mostly damp and dingy and huddled together.

Let us now consider the average number of persons per house, the number of houses per square mile, and the density of population for the last 40 years. In this way we shall be able to form an idea about the

pressure on the accommodation in the huts and also of overcrowding in the district —

Your	Average number of persons per house.	Average number of houses per square mile	Density of population per square mile	
1881	5-9	152	780	
1801	5.7	143	816	
1901	54	144	776	
1011	47	158	746	
1921	4.6	160	748	

It is evident from the above table that the average number of persons per house has gone considerably down from 59 in 1881 to 46 in 1921 but the average number of houses per square mile has increased from 182 in 1881 to 160 in 1921 resulting in seniors congestion. The increase in the total number of houses has not kept pace with the expans on of population. The density of population has gone down from 816 persons per square mile in 1891 to 745 in 1921.

Before going into details about the village it is better to have a general idea about the district from the latest census report. There are 7 towns and 3,134 villages in the whole of the district. The district contains 247 388 occupied houses abeltering a population of 1 155 105 the average number of persons living per house being 4 6. This average differs with different tabula.

	Number of occu pled houses.	Population in 1921	Number of persons per square mile.	Number of per some per house
Jampur	54,407	251,726	893	4.5
Mariahu	49,051	235,169	785	4 78
Machhlishahr	50,750	217,598	633	4.3
Khutahan Shahgani	53 458	255,428	708	4.7
Kerakat	39,683	195 186	803	4 9
Total of the district	247,388	1 185,105	745	4.6

It is clear that the number of persons per house is the largest in Kerakat, next comes Mariahu and then Shahgani

# Ambarpur

This village is situated in pargana Mariahu. There are 74 houses in all in the village. It is chiefly inhabited by the Kshatiiyas, Ahiis and Chamais. A survey was made of nearly all the houses in the village and the size of 100ms and number of persons noted. The houses were made of mud walls with tiled roofs (khapras), with the exception of five huts belonging to Chamais.

The dimensions of a Chamar's house were  $20' \times 12' \times 7'$  and it was occupied by 9 persons. The owner of the house told us that he kept his two cows inside at night as there was no space outside. What a noxious atmosphere they breathed! Next we visited a Thakur's house which measured  $45' \times 38' \times 8'$ . There was only one door in front. The occupants seemed to be better off, and there was some arrangement for ventilation also. Next we saw an Ahir's house with dimensions of  $42' \times 33' \times 9'$  which was inhabited by 12 persons. The inmates were thin, diseased and dirty. There was no sense of privacy whatsoever.

In village Paltupur, tahsil Mariahu, pargana Barsathi, there are 161 houses sheltering a population of 765 persons, of whom 716 are Hindus and 49 Muhammadans. The average number of persons living in each house is five. The huts are small, ill-ventilated and ill-thatched. The dimensions of an Ahn's house which we measured were  $52' \times 36' \times 11'$ . It gave shelter to 22 men, all unhealthy and poorly dressed.

Disease and sickness are rife in such huts, and there is a total absence of decency. It is impossible to observe any sense of privacy in huts of this type

Saphi is a small village containing 70 houses with a population of 357 persons, all Hindus The first house which we visited was that of a Chamar measuring  $33' \times 39' \times 6'$  It was a tiled cottage. The number of inhabitants was eleven, all healthy. They were carrying on agriculture and had one separate cattle-shed. Next we came across a Thakur's house. It was quite spacious, and on inquiry we were told that he was the zamindar of the village. There were 5 men, all in good health

Mangra is a very big village and is chiefly inhabited by the Cham are Pasis, Lohars and Thakurs. The average dimensions of a house were  $35' \times 20' \times 8'$ . The general health of the people was not satisfactory on inquiry we were told that the Health Officer never visited the village

### Saram Mohiuddin

The village is 6 miles west of Shahganj tahal. It is a beautiful village connected by a metalled road which goes to Shahganj. In this village we found two rows of houses running parallel to the road. There are good many pakka houses in the village which is chiefly inhabited by the Brahmans. Koeris and Banias. The dimensions of a Koeris house were 81' × 22' × 10'. It gave shelter to 8 persons. Next we visited a Dhunia's house which was also quite spacious.

### Baragaon

From the very look of the village one can very well understand about the general prosperity of the people. There are more than two dozen pakka houses of modern style. The village contains 548 houses with a population of 2 469. The average number of inhabitants per house is 4 5.

The average area occupied by homesteads in the district also varies with density and prosperity. A prosperous family builds larger huts and more of them. What struck us most was that the houses of the higher classes were more commodious more decent and better built while those of the lower castes were small low roofed end all ventilated. The next thing which struck us was about the sense of privacy. It is observed most in higher castes as the houses of these people are quite spacous while it is little observed in the lower castes as the houses are small. In some villages we were shocked to see 12 or 14 persons young and old living together more like castle than men

In Bengal the houses in which the peasants live are usually grouped round a spacious courtyard cowaheds and out-houses standing sometimes in the same quadrangle but more often a little back from it <sup>1</sup>. The area given up to gardens in Bengal is much larger than elsewhere while our huts are planned on a different footing. They are situated vary close to each other with narrow lanes. There are no regular cattle-sheds in many cases, both men and cattle share the same habitation.

An emment author has remarked that if one wishes to study the civilization of a particular nationality he should study its housing conditions. It is from the dwelling that one forms his opinion about the standard of living

, ,,

The health staff of the district is carrying on a regular propaganda on hygiene and sanitation. A very healthy scheme of village a d has been introduced by Dr. A. Sousa, F.R.O.S. (London), D.P.H. (Ireland), in our province, and if this scheme becomes successful most of the difficulties in our way of improving villages will be solved. As regards sanitation it aims at the following.—

- (1) Digging of pits by the villagers in the fields for keeping manure about 100 feet away from abadi (the pits to be big enough for the whole year's manure)
- (2) Removal regularly of the manure heaps to these pits
- (3) Making of soakage pits for waste water
- (4) Performance of natures' call 300 yards from the abadi

Sanitary Inspectors are deputed in every tabul to popularize this scheme. They have selected a few important villages in the tabuls and are giving regular demonstrations.

With the success of this scheme some advance towards rural sanitation will be effected.

#### CHAPTER VIII.

#### RETEOSPECT AND CONCLUSION

The pressure on agriculture can be very well understood if we compare the increase of net cultivated area with the increase of population in the district. The total area of the district is 991 864 acres or 1 549 79 square miles

Year	Not culti vated area.	Percentage of net culti vated to total area.	Increase of net cultivated area from 1841	
		1	Per cont.	
1841	893,340	89.7	100	
1867	594,060	<b>89-</b> 9	103-3	
1883	638,511	84.4	107 8	
1890 🛶	600,668	60-6	101-4	
1906	644,140	64-9	108 7	
1916	652,743	66-8	110-2	
1927	658,780	66-1	110-7	

The extension of cultivation has only been effected by reclamation of soil which in former days was not considered worth the labour and expenses of tillage. As population has expanded fresh soil has been reclaimed to cope with the pressure

Year	Population.	Increase from the year 1847	
		Per cent.	
1647	798,503	100	
1863	1,143,749	143	
1885	1,015,481	197	
1572	1,025,981	123	
1681	1,209 668	151	
1891	1,304,040	158	
1901	1,202,920	150	
1011	1,156,254	144	
1921	1,155,105	144	

It is clear from the above table that the population has increased at a faster rate than the cultivated area and ultimately the food supply. The cultivated area has increased in the last 80 years by 11 per cent., while the population has increased by 44 per cent. We see that the limit has been reached in the direction of extensive farming as the cultivated area in the district now forms 94 per cent of the estimated cultivable area of the district.

Thus more and more the proportion of double-cropped area (i e, intensive farming) will govern the increase of population in the near future

Thus of considerable importance from an economic point of view is the increase in the area bearing two crops in the year —

Year	Double-crop- pad aren	Total cropped area	Percentage of double-crop- ped to total cropped alca	
1896 (averago)	149,192		22 4	
1906 .	172,780	816,910	21 2	
1916	193,803	840,551	22 9	
1927	167,996	823,696	22 4	

At this stage it would be convenient to compare the double-cropped area of other districts of the province where the pressure on land is not so very severe

District	Double-crop- ped area	Total cropped area	Percentage
Meorut	334,078	1,426,032	23 4
Azamgarh .	203,229	1,109,708	18 3
Gorakhpur	619,253	2,780,365	22 3
Muttra	54,634	735,029	7.4
Agra	73,412	832,481	88

These figures indicate that the pressure on the land is very high and the law of diminishing returns is working rigorously. Thus it is not possible for en ordinary agriculturist to maintain himself and his family in a state of comfort. The most practical solution of this stage is that the agriculturists should take to intensive and scientific cultivation and for this they should be provided with better implements. The people of the district make the fullest use of the means of their disposal in preparing the fields. Better results can be obtained by a more liberal use of manure and the conservation of cowding and organic wardes. In our district the cowding that ought to go to the fields is being used as fuel while in Japan and China every care is taken to take night-soil and urine to the fields. There is no reason epart from prejudice why the methods of utilizing night-soil adopted by the Chinese and Japanese should not be followed in our district.

The yield of the land may be increased as the result of better rotation of crops. The advantages of scientific rotation are however not unknown. Cereals alternate with leguminous staples and a heavy kharif crop is only followed by e light crop in the spring. This mey be repeated for two years but in the third the land is left fallow during the summer and is then thoroughly prepared for wheat in the antumn or cane in the enging season.

The introduction of better and heavy crops should also be encouraged A valuable crop is pea which constitutes one of the principal rabi products of the district. The area was 25 000 acres in 1841 and 38 000 acres in 1886. There are three or four distinct varieties, the best though the most delicate being those with a white flower. The latest figures of area of cultivation are not shown separately.

Maize is a very valuable crop of the district end its importance has been increasing. This is evident from the following table —

Year		Average.
1841		4,175
1686		8,711
1889		87 000
1906		88,645
1916	,	96,992
1927	-	80,208

The table shows that the area has increased twenty times in the last 50 years. The phenomenal advance is due to several causes. The crop is one of the earliest to attain maturity and consequently is little affected by a premature cessation of the monsoon. It provides the cultivator and his family with sufficient food to last them from September till December when rice is harvested.

One of the unfortunate features of the agricultural history of the district is the decline in the area under sugarcane. It is evident from the following table:—

Year				Average
1841			•	81,436
1886				59,602
1906				49,292
1916	•		••	37,472
1927		•	•	49,532

The decline which has greatly affected the trade of the district is apparently due to the competition of beet and foreign cane sugar, the superior methods of manufacture in other parts of India and the spreading custom of double-cropping, the cultivators preferring to grow maize or lice and then to sow a rabi crop on the same field thus obviating the necessity of long fallows and careful preparation demanded by cane. Another cause of the diminution is the high cost of cultivation

Jaunpur is famous for its melons. A large quantity of this crop is exported every year to Calcutta, Patna, Cawnpore and other cities. The three best varieties are known as Sarda, Janali and Khamhua, and the produce of an acre sometimes brings as much as Rs 150. This is a very valuable and heavy yielding crop of the district

Our district is also renowned for the production of radishes. One radish sometimes weighs 20 to 25 seers. This crop also brings a considerable sum of money. As far as possible the cultivation of sugarcane, wheat, radishes potatoes, melons and other garden-crops should be encouraged.

The chief cause of agricultural inefficiency is the smallness of holdings. In our district the avarage size of holding is only 3.5 acres =

Districts.	Average size o tenant a holding
	Acres.
Jampur	3.2
Mozefferneger	11 5
Jalann	1~4
Bijnor	9-1
Allahabad	<i>B</i> 7

The holdings are not only very small but are very widely scattered Hence they hardly provide a decent living for the cultivator and his family. A great deal can be done if the Government take up this question scriously. They can introduce legislation to check further subdivision and also chalk out some plan for convolidation of holdings. Calvert's scheme of consolidation is doing wonders in the Punjah and the same can be done in our provinces. The Baroda State has also-passed a perfuseive Act for the consolidation of agricultural lands in December 1920. The Government of Bomhay has also recently introduced legislation in the local Council in order to promote the consolidation of holdings.

Agriculture depends mostly on wells in Jampur The number of wells in the district is remarkably large. The latest figures for the year 1927 28 give a total of 35 299 masonry and 11 892 non masonry wells in actual use for vatering the fields to say nothing of many more which are reserved for drinking or manufacturing purposes. These figures give an average of 14 acres of cultivation for each well. There are few parts of the district in which wells cannot be constructed with ease as the sub-soil is generally firm and earthen wells generally last for a considerable period especially when strengthened by coils of arbar at like. The water level is fairly high averaging about 27 feet below the surface. The cost of construction in the case of pakka wells varies according to circumstance but averages about Bs 290 while that of a kachoba well is Es 7.

But an all round agricultural improvement rests ultimately upon the improvement of the standard of living of the peasantry. Better education and improved farming go together. But a good deal remains to be done in the direction of utilizing the less busy intervals in the agricultural time-table. The introduction of subsidiary industries in connection with agriculture, eq, fruit growing, poultry farming, basket work, hand spinning, etc., will be an important advance. Education alone will not do. It would stimulate a better standard of living, but this cannot be achieved if the cultivator lives from hand to mouth. Jaunpur is by no means an industrial town, and the manufactures of the district are few and of little importance.

Sugar industry has declined, though it is still of considerable importance, and its recovery may fairly be anticipated. Some enthusiastic entrepreneurs should revive the industry and remodel it on factory lines

A noted industry of Jaunpur is the manufacture of perfumes, which is said to have been introduced from Peisia in the days of the Sharki Kings. The principal scents are those obtained from jasmine, lose and keora of sciewpine and from the roots of khaskhas grass (Andropogan muricata). This industry is declining these days

The remaining industries are of little note. The most important of them is handloom weaving. In villages Terhwa and Bisheswerpur there are good many weavers who are carrying on the manufacture of cotton cloths. With the encouragement of the above industries and the introduction of new ones as a subsidiary occupation to agriculture, the poverty of the small holder can be relieved and ultimately his standard of living raised.

At present the condition of agriculture is such that it can hardly provide the cultivators with bare necessities, hence the people of the district have to emigrate to distant centres in search of their livelihood. The progress of emigration is as follows —

				Emigrants	Immigrants
1901	••	•	•	158,851	71,463
1911	•			159,137	74,039
1921				139,229	59,579

There is hardly one family in the district which has not got one or two of its members working in some mills of Bengal It is Jauinpur and Sultanpur which supply grass-cutters and syces to the whole of Northern India from Peshawar right up to Calcutta In this region as the pressure on land is very severe emigration is inevitable. There is no advantage in a large mass of agricultural labourers floating about in

their native tract and thereby depressing agricultural wages. They would be benefited by migrating to other parts of the country where they could secure employment in factories or industrial or commercial establishments. This would improve the condition of the workers and also of their kingmen who would be following agriculture in their native villages.

Labour is not as mobile as one would wish. The wage level in the district is very low, and it differs in different villages and also in different seasons of the year. It ranges from two annas to eight annas according to work. Wages fluctuate when the harvest is good or when there is a failure of crops. During the last failure of khanf barvest the wages in some villages were as low as six pice per day. In order to better the condition of the agricultural labourer the stream of emigration should increase in volume or else the population should exercise prudential checks. So long as the labourer lives in a state of starvation and agriculture remains crowded no lasting improvement in rural conditions can be expected.

The question of hygienic housing demands immediate attention. This problem has been lately tackled by the Public Health department and they are regularly carrying on a vigorous propagands. With the success of Dr. Souss's scheme a great improvement is anticipated.

It would be idle to imagine at this stage all these improvements without the supply of abundant and cheap capital. We see that the rate of interest in villages varies from 25 to 300 per cent, per annum

The reasons appear to be as follows -

- (1) The ignorance of the agriculturists
- (2) Their distance from the towns where banks are situated
- (3) The reluctance of the banks to extend small transactions to villages among an ignorant people
- (4) The want of sufficient knowledge regarding the substance or integrity of the borrower

For these reasons it has always been necessary in India that the agriculturists should have some form of cheap and facile credit. All these defects can be removed by means of co-operative credit societies if they are formed in large numbers and worked on right lines.

We should adopt as far as possible the arts of technical and mechanical efficiency in small establishments and methods of marketing as in France as well as the grafting of processes of large co-operative business.

upon the small farming economy as in Belgium Denmark and Germany More and more demonstration farms should be opened in villages to give practical lessons of scientific farming to peasantry.

As the result of the organization of agriculture and the prosperity of the agricultural industries the economic position of small holders in Germany is higher than in most agricultural countries

It is to the organization of agriculture and large co-operative business that we can look forward for both the economic and the moral regeneration of the countryside. But no new organization can take roots in the soil of the country unless the peasant changes his outlook on life and improves his mental equipment. At present he is apt to be a fatalist, demoralized by his struggle to extort a bare sustenance from an uneconomic holding, while he is completely ignorant of many important matters that touch his real well-being. The key to the improvement of agriculture will thus be found in the psychology of the peasant himself.

APPENDIX A Population of taks il Jaunpur bysparganas

!	Total.	184				2	*	800
"Othern,	के बहु	in the				10	en	244
	Make.	247				- 69	<b>•</b> 1	25
le pa	Total.	792.07	룛	8	3,019	1 965	1,208	17 041
Muhammadapa,	Fo. Baker,	10 120	15	148	1,510	200	730	13,800
TEN T	Makes Total, Makes	10,147	3	146	1,609	1,010	3	13,830
	Total	116,631 16,147 10 120 20,267	\$1 600	7,503	50,750	10 704	7 127	223,583 13,890 13,800 27 041
Hindas.	Bomslee.	67,589	10 770	3,911	25,190	9,814	7,684	110 953
	Males.	58,04	10,830	3,851	25,660	0,890	2,443	112,626
	Total	137,282	2,413	8,150	13,760	31 683	8,420	927 138
Pepulation.	Femalos.	67 946	181 11	\$ 003	6 700	10 774	136	126,007
-	lfake	90,330	11,922	4,097	27 000	10,009	₹088	118,710
Mum	822g	ŝ	8	*	173	8	8	799
	Name of pargana.	I Hewil	2. Karyadost	3 Khapraha	4. Bari	Tappa Saremu	0 Zafrabad	Tahril total

( 68

Population of takeil Jaunpur by thanas

	Total				•	153				35	
Others	Fe- males.					223	1.0		į	9Í	, ~
	Yales		•	:	1	230	6	:		19	,
13.	Total.	70%	CO.	3,379	175	19,061	353	745	83 113	3,229	
Kahammadans.	Fo- males.	000	3	1,708	88	9,454	168	393	115	1,656	
Mal	Males	G	1	1,671	87	9,907	185	352	119	1,573	
	Total.	t	(£) ()	63,788	11,237	65,217	8,288	20,305	7,010	39,989	
Hindus.	Fo- males.	0700	0,010	31,775	5,813	31,693	4,161	10,101	3, 199	19,976	
	Males.	600	6,000	32,013	121,0	33,524	4,127	10,201	3,511	20,022	
ď	Total.	7100	4,77%	67,167	11,412	84,731	8,655	21,050	7,244	43,253	
Population.	Fo- males	0017	4,103	33,483	5,901	41,370	4,334	10,497	3,614	21,639	
	Males.	1	4,140	33,684	5,511	43,361	4,321	10,553	3,630	21,014	١.
Num-	of vil- lages.	9	9	235	49	230	36	62	23	142	
			:	;	;	;	:	:	:	:	
	Name of thans.	المرازير الم	Launpur	Baksha	Jala'pur	Jaunpur Kotwalı 🔐	Kırakat	Maohhlishahr	Mornahu	Saraı Khwaja	
		-	<b>:</b>	2.	33	₹.	າວໍ	ဗိ	7.	တ	

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F e	· ·		Population.		,	Hodus.		374	Mubammadane.	ij		Others.		
Vario of pargara.	er of	Malca	Malon, Pemalen, Total.	Total.	Make.	F. Take	Total.	Malea	Fe- males.	Total	Males Fo.	岩岩	Total	
Bra	81	A,065	26,794	098'09	<b>वेश्वर्थ</b>	24 415	48,438	1,345	1,379	7,007				
Chandwak	23	27,201	\$7,512	54,803	26,363	.0,003	52,386	85 85	1 480	2,417	1			
Kirchat	5	17,061	17,207	34,368	16,005	16,200	201,200	3,056	130	2,163				
Plan	3	<b>2</b> 7 710	27 446	66,150	25,733	23 459	51 19.	1,974	1 887	1901	•		ຕ	
Tabell total	3	721.70		68,039 104,150	126,18	810,087 184,018	184,018	6,203	5,903	11 185	"	1	•	

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:	M	Pi (	Population.			Hadas.		Ä	Mnhammadans.	1		Others.	
Name of thems,	ber of	Kalen.	Forth es. Total.	Total.	Маке	Ye. melet.	Total	i i i	41	Total.	Males, Po- males,		Total
Chandwak	151	97,60	28,043	5,647	25,718	27 135	53,845	38	710	1,808		Ī	1
. Jalalput	38	25,065	16.794	608,00	23,830	24,415	48,236	1,246	1,379	2,834	1	ı	ı
. Kirakaa	185	44,488	4,23	88,680	41,383	60,058	81,038	3,073	3,066	6,739	-		67

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-	Total	10	:	441	:	14	
Others	Fe- males	4	.:		:	າວ	
	Yales .	9	•	က	•	0	
ıns	Total	3,217	2,037	7,616	11	12,910	
<b>Nuhammadan</b> s	Fo- males.	1,568	000	3,872	8	0,117	
Mr	Males	1,619	1,036	3,774		6,163	anas
	Totai	50,376	33,909	131,222	738	232,222	opulation of taksil Mariaku by thanas
Hindus	Fo- malcs	28,015	17,165	67,156	108	236,169 108,301 113,914 222,215	Maria
	Males	27,161	16,444	01,066	330	108,301	f tahsıl
	Total	59,603	35,914	138,872	7 0		lation o
Population	Fo- malos	30,487	18,564	71,029	416	718 114,773 120,396	Popu
	Males	29,116	17,480	67,843	334	114,773	
,	ber of villages	163	118	436	П	718	
			*		•	•	
	Name of pargana	. Barasathı	Gopalpur	. Mariahu	Rampur	Tabail total	

Population of taksil Mariahu by parganas.

)					
	Total	:	:	:	14
Others.	Fo- males	:	:	٠	10
	Males		:	•	6
eut	Total.	1,530	346	3,856	6,100
Muhrmmadans	Fo- myles.	750	168	1,882	3,076
Mu	Males	771	178	1,974	3,024
	Total	36,225	0,480	67,752	82,373
Hindus.	Fo- males	18,648	4,813	35,055	42,085
	Males	17,577	4,676	32,697	88,487 4.10,288
a	Total.	37,755	9,835	7,608	\$88,487
Population	Fo- malos	19,407	4,981	34,671 - 36,937	43,321  , 45,166
-	Malos	18,348	4,854	34,671	43,321
Nam-	ber of villages	, 105	24	661,	393

Name of thans

2 Machhlishahr

. 1. Bamhiyaas

3 Rampur

Marrahu

		۱'		١						ľ			ľ
		Ē	Population.		ı	Hindus.		Muk	Muhammadans.	ıi.	٠	Other	
Name of pargume.	Per of	Malos.	Fo- malos.	Total	Males.	Fo. males.	Total.	Males.	Fe- males.	Total. Males, Bo. Total.	Yake.	Fo. maler.	Total.
L. Garwara	321	46,834	47 923	94,750	43,873	100,11	88,704	2,011	2,008	5,909	a	ង	23
2. Ghiren	۶	37 003	37 782	74,785	23 157	33,779	60,936	3,795	3,964	7 769	5	S	8
3. Mungra	106	13,841	34,314	46,065	33,438	22,809	46,267	1,383	1 408	2,788			
Tabell total	88	036 107 678 109,018 217,538 00,508 101 480 200,997	109,019	\$17,598	802,00	101 480	200,997	8,080	8,367	16,456	81	g	3

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		,	Ā	Population			Hodus.		Ma		ŧ		Others.	
×	Name of thans.	ber of	Yalos.	Fe make	Total.	Males.	Fe- malen.	Total.	Males.	Po- malea.	Total.	Malos, malos.	Fo. nales.	Total.
=	1. Badlapur	8	8,633	5,737	11,570	6,489	5,583	11 071	35	15	8			
<b>e</b> \$	2. Badehapur	130	26,951	27 478	54,637	23,469	25,920	51,389	1,483	1,566	3,048			
લ	2. Bemnhiyaon	8	14,069	14,230	28,289	13,129	12,293	16,419	25	752	1,870		_	_
J	4. Machhlishahr	15	\$1,510	770,0	13,563	18,618	10 025	37 645	2,850	986	5,830	18	£	8
ď	5. Bujanganj	ä		40 431	30 315 40 431 79 737 36,707		37 768	74,476	25	3,630	\$ 200	B	2	8

by parganas.
Shohganj
of tahsıl
Population (

	Total.			:	<del>5</del>	<u>s</u>	•
Others.	ro. Inles		:		50	02	
Ö	Yalos males		:	<del></del>	23	50	
188	Tota'.	2,160	100	1,487	29,243	33,391	
Nuhammadans	Fe- males	1,017	213	777	14,950	16,937	
Mul	Males	1,113	258	710	14,293	16, 10.£	
	Total.	25,817	11,816	28,155	153,200	221,088	
Hındus.	Fo- males	12,850	7,344	14,147	75,891	255,428 111,750 110,238	
	Vales	12,931	7,172	14,008	77,309	111,750	
	Total.	27,077	15,317	23,612	184, 192	255,428	
Population	Fe- malos.	13,873	7,587	11,924	198,00	127,245	
Ĕ.	Males	14,104	7,730	14,718	91,631	128,183	
,	Num- ber of villages	70	70	58	200	707	
	Name of pargana	I. Chanda	2 Karyat Mondha .	3. Кап .	4. Unglı	Tahai total	

thunas.	
bÿ	
Shah tang	
lahsil	
of	
Population of takeit Shaktang by thunas.	

			Population	F-1		Hindus		Mu	). Jubammedans.	ns.		Others	
	ber of villages	Males	Fe- males	Total	Males.	Fe- males	Total.	Males	Fe- males.	Total.	Nales males.	Fe- males.	Total.
	207	36,552	63,384	72,936	34,441	34,347	68,788	2,211	2,037	1,119	•		•
•	120	20,470	20,062	41,032	10,191	16,301	32, 192	4,261	1,252	8,516	15	6	76
	229	40,453	39,222	79,675	36,357	34,073	71,330	4,091	4,215	8,336	ນວ	<del>-</del> 44	6
•	151	30,708	31,077	61,785	24,761	24,617	49,378	5,938	6,453	12,391	c,	ţ-	16
		_				_	_		_		_	-	

Irregution statement by pargunas -The sub-joined statement exhibits all the available irrigation AI PENDIX B figures -

0										
			Total	Number	Number of wells.		Area irrigated by-	tod by-		Percentage of well
Tahell	Pargana	Total area.	vated area	Patter.	Kockela.	Total	Wells	Other sources.	Interest	irrigated to total irrigated area.
	Havoli	88,316	23,03	008*7	1 078	898*0	7 005	82	8,195	1.7
_	Bort	43,901	33,004	1,584	1,670	3,443	4,167	8	8727	8
	Валешал	19,267	11,991	924	246	930	1,574	80	163	8
and under	Zafrabad	\$16 <b>*</b>	3,695	336	193	8438	102		702	8
	Kariet Doet	18,831	14,175	828	358	1,316	1,673		1,673	82
~	Khapraha	7 030	5,128	ŭ	183	\$3	93		919	100
	Total of tabail	180,168	127,348	8,843	4,759	13,300	16 529	330	16,868	
	Mariahu	123,074	82,543	8,631	1155	969'9	44,708	708	43,296	8
Mariahu	Bernethi	53,465	34,548	1378	105	3,546	17 908	119	19,023	2
	Gopulper	18,937	90,179	1,349	88	14	10.731	Ħ	11,068	5
	Total of tahall	307,466	137,570	125,0	1,158	10,679	71 436	3	775,277	
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98	98	16	:	7.	100	100	100		100	100	100	100	160	•	:
4,561	5,001	2,559	12,121	9,212	713	1,166	1,937	13,058	1,208	1,956	3,416	1,521	1,912	13,013	127,137
T.	101	140	321	2,110	1	C1	•	2,413	က	t~	¢1	•	•	12	1,057
4,400	4,900	2,410	11,800	208'9	712	1,161	1,937	10,615	1,205	1,949	3,111	1,521	1,912	13,001	123,380
3,841	3,117	2,252	9,210	5,615	851	1,326	1,873	9,668	2,620	1,418	1,371	1,203	1,297	8,012	61,769
524	102	10	796	1,100	401	503	764	3,166	či či	523	855	642	329	3,077	13,154
3,307	2,925	2,182	8,414	1,208	363	\$25	1,109	6,502	1,896	83	1,519	561	898	5,835	38,615
55,901	46,293	32,322	134,516	107,118	0,400	15,090	17,373	148,990	30,391	18,211	30,591	10,898	17,614	107,708	655,730
88,033	75,230	56,929	220,201	173,720	12,408	21,525	23, 185	231,228	40, 102	20,873	44,706	16,636	24,194	155,811	991,864
Garwara		Mungra	Total of tabail Machhlishahr	Ungli	Karıyat Noudha	Chanda	Ran	Total of tahsil Shahgany.	Bilai	Pissra	Chandwak .	Daryapur	Guzara	Total of tahsil Kerakat.	District total
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	Machhlishahr.				i	Shabganj					Kerakat				